

Product range

Private property

Premium quality for designers

tubag is inseparably linked with Trass. The specific properties of this binder effectively protect against discolouration and efflorescence and convince through maximum durability. This makes tubag products the first choice for all projects where architectural design standards and maximum product quality are required – in gardening and landscaping as well as in the restoration of historic buildings and in road construction.

Whether mortars, slurries or plasters – all products are precisely designed to meet their requirements and, together with an accompanying project service, ensure efficiency that all our partners appreciate: craftsmen and trade partners, architects and property developers.

Privatanwesen

THE GREEN LINE – WITH NEW FAÇADE

We launched the Green Line in 2023 to transparently demonstrate the strengths of our products in terms of sustainability. It includes dozens of products that contribute to the reduction of greenhouse gas emissions and the establishment of a closed value chain.

To this end, we have developed 9 criteria that are required to fulfil the high standards of a climate-friendly building material.

Our 9 sustainability criteria:

- Recyclable
- Waste avoidance
- Healthy living
- CO₂-reduced binders
- Use of secondary raw materials
- Renewable raw materials
- Longevity
- Resource-efficient use
- Eco-enabler

The new Green Line logo

We combine these 9 criteria into 3 categories with our new Green Line logos: **Climate protection, Conservation of resources, Healthy living.**



We currently sell products in our Green Line range that fulfil one or more of our sustainability criteria – but they always have to pass a rigorous test.

We are also a member of important sustainable building organisations and attach great importance to reputable certifications, such as those of the DGNB and the EPD.

Looking ahead to a greener future

Thanks to the energy our employees have invested in formulation optimisation, we have saved **7200 tonnes of CO₂ equivalent** in the last two years.

Since then, we have been analysing **our entire value chain with regard to greenhouse gas emissions**. The result is a **life cycle assessment model** that shows our CO₂ emissions for Sievert at product level – this is where we calculate the exact CO₂ footprint. **This improves the results of the environmental product declarations by 25 – 50 %.**

Another reason to rely on the Green Line in future.

1 TRASS BINDER / TRASS MORTAR 4

| | |
|--------------------|---|
| 1.1 Trass binder | 6 |
| 1.2 Trass mortar | 8 |
| 1.3 Trass concrete | 9 |

Trass binder / trass mortar

2 NATURAL STONE LAYING 10

| | |
|---------------------------------------|----|
| System table for laying natural stone | 12 |
| 2.1 Thick-bed mortar | 14 |
| 2.2 Medium-bed mortar | 15 |
| 2.3 Thin-bed mortar | 16 |
| 2.4 Grout mortar | 17 |
| 2.5 Bonding slurry | 18 |

Natural stone laying

3 GARDENING AND LANDSCAPING 20

| | |
|---|----|
| System table paving and natural stone laying acc. ZTV Wegebau | 22 |
| 3.1 Water-permeable bedding mortar | 24 |
| 3.2 Bonding slurry | 26 |
| 3.3 Water-permeable grout mortar | 27 |
| 3.4 Water-impermeable grout mortar | 30 |
| 3.5 Special products | 31 |

Gardening and landscaping

4 ROAD CONSTRUCTION 32

| | |
|------------------------|----|
| 4.1 Bedding mortar | 34 |
| 4.2 Bonding slurry | 35 |
| 4.3 Paving grout | 36 |
| 4.4 Contraction joints | 38 |
| 4.5 Special mortar | 40 |
| 4.6 Accessories | 41 |

Road construction

5 RESTORATION OF HISTORIC BUILDINGS 42

| | | | |
|--|----|--|----|
| System table binders | 44 | | |
| 5.1 Mortar for laying cut stones | 46 | 5.5 Fine plasters | 55 |
| 5.2 Grout mortar | 49 | 5.6 Natural stone slurries | 56 |
| 5.3 Base plasters | 52 | 5.7 Anchor, backfill and grout mortar | 57 |
| 5.4 Renovation and functional plasters | 54 | 5.8 Stone supplementary mortar / blasting material | 59 |

Restoration of historic buildings

1 TRASS BINDER / TRASS MORTAR

| | | |
|---|-----------------------------------|----|
| 2 | NATURAL STONE LAYING | 10 |
| 3 | GARDENING AND LANDSCAPING | 20 |
| 4 | ROAD CONSTRUCTION | 32 |
| 5 | RESTORATION OF HISTORIC BUILDINGS | 42 |

1 TRASS BINDER / TRASS MORTAR

| | | |
|-----|----------------|---|
| 1.1 | Trass binder | 6 |
| 1.2 | Trass mortar | 8 |
| 1.3 | Trass concrete | 9 |

TRASS BINDER / TRASS MORTAR

1.1 Trass binder

TZ-o Trass cement original 40 L

- pozzolan cement
- to produce supple, easy to process and resistant site-mixed mortars, e.g. facing and bedding mortar
- for external and interior use
- with at least 40% original tubag Trass

• CEM IV/B (P) 32.5 N acc. EN 197-1

| Article | Availability | | | | GTIN/EAN | Container | Container-size | Container/Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|-----------|-----------|----------------|------------------|----------------|------------|------------|
| | N | E | S | W | 4004637 | | | | | | |
| TZ-o | ■ | ■ | ■ | ■ | - 57209 7 | Bag | 25 kg | 54 | 460 461 010 | 1 sack | |



TZ-s Special trass cement

- binder with special additives (PAN 56)
- to produce supple, easy to process and resistant site-mixed mortars, e.g. facing and bedding mortar
- for laying highly-sensitive, discoloration-sensitive natural stone
- for external and interior use
- with 50% original tubag trass

| Article | Availability | | | | GTIN/EAN | Container | Container-size | Container/Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|-----------|-----------|----------------|------------------|----------------|------------|------------|
| | N | E | S | W | 4004637 | | | | | | |
| TZ-s | ▲ | ▲ | ▲ | ■ | - 57212 7 | Bag | 25 kg | 48 | 460 461 030 | 1 sack | |



1.1 Trass binder



FL-B Formulated lime binder

- Formulated lime binder based on FL B 3.5 in accordance with DIN EN 459-1
- for producing site-mixed mortar
- cement-free
- with at least 25 % Rhenish trass
- with approx. 35% available lime (Ca(OH)₂)

| Article | Availability | | | | GTIN/EAN | Container | Container-size | Container/Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|-----------|-----------|----------------|------------------|----------------|------------|------------|
| | N | E | S | W | 4004637 | | | | | | |
| FL-B | ▲ | ▲ | ▲ | ■ | - 55553 3 | Bag | 25 kg | 30 | 460 462 050 | 1 sack | |



TK Trass lime HL 5

- hydraulic lime
- for external and interior use
- with 55% original tubag trass

• Hydraulic lime HL 5 acc. EN 459-1

| Article | Availability | | | | GTIN/EAN | Container | Container-size | Container/Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|-----------|-----------|----------------|------------------|----------------|------------|------------|
| | N | E | S | W | 4004637 | | | | | | |
| TK | ■ | ■ | ■ | ■ | - 57214 1 | Bag | 25 kg | 48 | 460 462 040 | 1 sack | |



TM Trass flour

- latent hydraulic rock flour
- to increase strength in combination with lime or cement
- Trass powder according to DIN 51043
- Colour: grey beige

| Article | Availability | | | | GTIN/EAN | Container | Container-size | Container/Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|-----------|-----------|----------------|------------------|----------------|------------|------------|
| | N | E | S | W | 4004637 | | | | | | |
| TM | ▲ | ▲ | ▲ | ▲ | - 57220 2 | Bag | 25 kg | 48 | 460 463 070 | 1 sack | |

TRASS BINDER / TRASS MORTAR

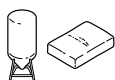
1.2 Trass mortar

TKM 5 Trass lime mortar

- masonry mortar for all masonry blocks, bedding mortar for soft natural stone
- for moving and laying soft natural stone, e.g. tuff, sandstone etc.
- for external and interior use
- binder basis: Trass lime
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: approx. 33.5 kg/m² for 2 thin format blocks

• Standard masonry mortar M5 acc. EN 998-2
NM IIa according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TKM 5 / 0 – 2 mm | ■ | ■ | ■ | ■ | - 57166 3 | Bag | 25 kg | 48 | 440 441 010 | 1 sack | |
| TKM 5 / 0 – 2 mm | ▲ | ▲ | ▲ | ▲ | - 57066 6 | Silo | | | 440 441 010 | 1 t | |
| TKM 5 / 0 – 4 mm | ■ | ■ | ■ | ■ | - 57169 4 | Bag | 25 kg | 48 | 440 441 010 | 1 sack | |
| TKM 5 / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 57069 7 | Silo | | | 440 441 010 | 1 t | |



TZM 10 Trass cement mortar

- masonry and bedding mortar for natural stone
- for laying natural stone slabs, steps and paving stones
- high strength for heavy loads
- binder basis: Trass cement
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: approx. 33.5 kg/m² for 2 thin format blocks

• Standard masonry mortar M10 acc. EN 998-2
NM III according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TZM 10 / 0 – 2 mm | ▲ | ■ | ■ | ■ | - 57104 5 | Bag | 25 kg | 48 | 440 441 020 | 1 sack | |
| TZM 10 / 0 – 2 mm | ▲ | ▲ | ▲ | ▲ | - 57105 2 | Silo | | | 440 441 020 | 1 t | |
| TZM 10 / 0 – 4 mm | ■ | ■ | ■ | ■ | - 57109 0 | Bag | 25 kg | 48 | 440 441 020 | 1 sack | |
| TZM 10 / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 57077 2 | Silo | | | 440 441 020 | 1 t | |

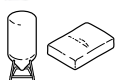


TZM 20 Trass cement mortar

- masonry and bedding mortar for natural stone
- for laying natural stone slabs, steps and paving stones
- compressive strength: ≥ 20 N/mm²
- high strength for heavy loads
- binder basis: Trass cement
- grain: 0 – 4 mm
- consumption: approx. 33.5 kg/m² for 2 thin format blocks

• Standard masonry mortar M20 acc. EN 998-2
NM IIIa according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TZM 20 / 0 – 4 mm | ▲ | ▲ | ■ | ▲ | - 57097 0 | Bag | 25 kg | 48 | 440 441 030 | 1 sack | |
| TZM 20 / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 57112 0 | Silo | | | 440 441 030 | 1 t | |



1.2 Trass mortar



TZVM Multipurpose trass cement mortar

- one product, many applications
- for masonry, plastering, laying, moving, production of screeds and execution of simple concreting tasks
- universal use
- binder basis: Trass cement
- grain: 0 – 4 mm
- consumption: depending on application
- **Standard masonry mortar M10 acc. EN 998-2**
NM III according to DIN 20000-412
GP CS IV acc. DIN EN 998-1
CT-C20-F4 acc. DIN EN 13813 / DIN 18560
Standard plastering mortar GP CS IV acc. DIN EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TZVM / 0 – 4 mm | ▲ ■ ▲ ■ | - 57184 7 | Bag | 25 kg | 48 | 440 441 040 | 1 sack | |
| TZVM / 0 – 4 mm | ■ ▲ ■ ■ | - 57185 4 | Bag | 40 kg | 35 | 440 441 040 | 1 sack | |

1.3 Trass concrete



New!

TZB Trass-cement concrete

- Trass-cement concrete in a self-dissolving bag
- for laying kerbstones, block steps, palisades and concrete components
- for many applications in gardening and landscaping
- with reduced cement content
- universal use
- binder basis: Trass cement
- grain: 0 – 8 mm
- consumption: depending on application
- **C12/15 X0 acc. EN 206 / DIN 1045-2**
(Mixed without paper bag)

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TZB C12/15 | ▲ ▲ ▲ ▲ | - 57515 9 | Bag | 25 kg | 48 | 440 441 040 | 1 sack | |
| TZB C12/15 | ▲ ▲ ▲ ▲ | - 57516 6 | Silo | | | 440 441 040 | 1 t | |

| | | |
|---|-----------------------------|---|
| 1 | TRASS BINDER / TRASS MORTAR | 4 |
|---|-----------------------------|---|

2 NATURAL STONE LAYING

| | | |
|---|-----------------------------------|----|
| 3 | GARDENING AND LANDSCAPING | 20 |
| 4 | ROAD CONSTRUCTION | 32 |
| 5 | RESTORATION OF HISTORIC BUILDINGS | 42 |

2 NATURAL STONE LAYING

| | | |
|-----|---------------------------------------|----|
| | System table for natural stone laying | 12 |
| 2.1 | Thick-bed mortar | 14 |
| 2.2 | Medium-bed mortar | 15 |
| 2.3 | Thin-bed mortar | 16 |
| 2.4 | Grout mortar | 17 |
| 2.5 | Bonding slurry | 18 |

System table for laying natural stone

| | | | | Thick-bed mortar | | | Medium-bed mortar | |
|-------------------------------|-------------------|--|---|---|------------|------------|---|--------------------|
| | | | | for high layer thicknesses and different flooring elements | | | for highly irregular and profiled flooring elements with high dead weight | |
| Rock type | Sub-groups | Rock type | Typical sales descriptions (examples) | Normally hardening thick-bed mortar with trass (with bonding slurry tubag TNH-flex) | | | Normal-setting medium-bed mortar with trass and pumice supporting grain | |
| | | | | tubag NVL 300 | tubag TN | tubag TN-s | tubag TNM-Vario FX | tubag TNM-Vario FX |
| Layer thickness / joint width | | | | 20 – 50 mm | 20 – 50 mm | 20 – 50 mm | 5 – 25 mm | 5 – 25 mm |
| Natural stone laying | Magmatic rocks | Granite | Rosa Porrino, Baltika Braun, Rosa Beta, Absolut Black Premium, Nero Luanda, Nero Africa | xx | xx | xxx | xx | xxx |
| | | Chinese granites | G 603, G 633, G 684, G 685, G 623, G654 | 0 | 0 | xx | x | xx |
| | | Syenite | Blue Pearl | 0 | 0 | xx | x | xx |
| | | Gabbro | Nero Impala, Nero Assoluto, Nero Assoluto Zimbabwe, Nero Assoluto India, Silver Galaxy | x | x | xxx | x | xx |
| | | Foid stones | Blue King, Azul do Bahia | x | x | xxx | x | xx |
| | | Tuff | Weiberner Tuff, Ettringer Tuff | x | x | xxx | x | xx |
| | | Rhyolite | Quarzporphyr | x | x | xxx | x | xx |
| | | Basalt | Mendiger Basalt, Mayener Basalt | xxx | xxx | xxx | xxx | xxx |
| | | Trachyte | Weidenhahn Trachyt, Selters Trachyt, Telpa Trachyt, Trachite Euganei, Ettringer Trachyt | 0 | 0 | xx | 0 | x |
| | Sedimentary rocks | Limestone breccia | Breccia Aurora (without mesh reinforcement) | 0 | 0 | x | 0 | 0 |
| | | Sandstones | Roter Mainsandstein, Ruhrsandstein, Ibbenbürener Sandstein | xx | xx | xxx | xx | xx |
| | | Sand-lime brick | Anröchter Kalksandstein | x | x | xx | x | x |
| | | Slate clay | Holzmadener, Portoschiefer | x | x | xx | x | x |
| | | Limestone | Belgischer Granit, Nero Marquina, Jura Grau, Jura Gelb, Diefurter Kalkstein | x | x | x | x | xx |
| | | Travertine | italian Travertine (european), Kalktuffe | x | x | xxx | xx | xx |
| Metamorphic rocks | | Marble | Bianco Carra, Nero Marquina, Thassos | x | x | xxx | x | xxx |
| | | Chlorite slate | Verde Guatemala "Echt", Dorfergrün | x | x | x | x | x |
| | | Granulite | Branco Ipanema | 0 | 0 | x | x | x |
| | | Phyllite | Otta-Phyllit | x | x | xx | xxx | xxx |
| | | Migmatite | Juparana Colombo, Verde Maitaca, Kinawa | x | x | x | xx | xx |
| | | Paragneiss | Sarizzo Antigorio, Viscount White | x | x | xx | x | xx |
| | | Mica quartzite | Alta Quarzit | xx | xx | xxx | xx | xxx |
| | | Quartzite | Azul Imperial | xx | xx | xxx | xx | xxx |
| | | Serpentine | Verde Alpi, Rosso Levanto | 0 | 0 | 0 | x | x |
| Artificial stones | | Cement-bonded artificial stone | Cement tiles | 0 | 0 | x | 0 | 0 |
| | | Glass mosaic | | 0 | 0 | 0 | 0 | 0 |
| | | Resin-bonded artificial stone | | 0 | 0 | 0 | 0 | 0 |
| | | Concrete blocks | | xxx | xxx | xxx | xxx | xxx |
| | | Outdoor ceramics / porcelain stoneware | | xxx | xxx | xxx | xxx | xxx |
| | | Cotto | | x | x | x | 0 | 0 |

Legend: 0 = not suitable; x = conditionally suitable (Trial laying required); xx = suitable (depending on the panel format, test installation recommended); xxx = recommendable

| Medium-bed mortar | | | Thin-bed mortar | | Joints | |
|---|----------------|---|--|---|--|---|
| for irregular covering elements | | ideal for outdoor area | Ideal for calibrated, discolouration-sensitive and thin natural stone elements | | | |
| Normal hardening medium-bed mortar with trass | | Fast-setting, grey medium-bed mortar with crystalline water binding | normally hardening white thin-bed mortar with trass | Fast-setting, white thin/medium-bed mortar with crystalline water binding | Grout with crystalline water retention | Grout for wide joints and polygonal slabs |
| tubag TNM-flex | tubag TNM-flex | tubag TNM-rapid FX | tubag TKN VarioRapid | tubag TKN VarioRapid | tubag TNF VarioRapid | tubag TFP |
| 5 – 25 mm | 5 – 15 mm | 5 – 25 mm | 2 – 10 mm | 2 – 20 mm | 2 – 10 mm | 10 – 50 mm |
| xx | xxx | xxx | xx | xxx | xxx | xxx |
| x | xx | xx | x | xxx | xxx | x |
| x | xx | xx | xx | xxx | xxx | x |
| x | xx | xx | x | xxx | xxx | x |
| x | xx | xx | x | xxx | xxx | x |
| x | xx | xxx | x | xxx | xxx | x |
| x | xx | xxx | x | xxx | xxx | xxx |
| xxx | xxx | xxx | xxx | xxx | xxx | xxx |
| 0 | x | xx | x | xxx | xxx | xx |
| 0 | 0 | xx | 0 | xx | xx | 0 |
| x | x | xxx | x | xxx | xxx | xxx |
| x | x | xx | x | xxx | xxx | x |
| x | x | xx | x | xxx | xxx | x |
| x | xx | xxx | xx | xxx | xxx | x |
| x | xx | xxx | x | xxx | xxx | xx |
| x | xxx | x | x | xxx | xxx | x |
| x | x | xx | x | xx | xx | x |
| x | x | xx | x | xxx | xxx | x |
| x | x | xx | x | xxx | xxx | x |
| xxx | xx | xx | xx | xxx | xxx | x |
| x | xx | xx | xx | xxx | xxx | x |
| xx | xxx | xx | xx | xxx | xxx | x |
| xx | xxx | xx | xx | xxx | xxx | x |
| x | x | x | x | xxx | xxx | x |
| 0 | 0 | xx | 0 | xxx | xx | x |
| 0 | 0 | 0 | xx | xxx | xxx | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| xxx | xxx | xxx | xxx | xxx | xxx | xxx |
| xxx | xxx | xxx | xxx | xxx | xxx | xxx |
| 0 | 0 | xxx | 0 | xxx | xxx | x |

- for bricks that are sensitive to discolouration and prone to translucency, special trass cement binder (approx. 50 % trass content in the binder)
- normal-setting for bricks with low sensitivity to discolouration, binder trass cement (approx. 40 % trass content)
- Fast-setting for cast stone that is less susceptible to discolouration and deformation in floor and wall areas, especially outdoors (approx. 45 % trass content)
- Fast-setting for discolouration-sensitive and low deformation-sensitive cast stone in floor and wall areas, especially outdoors (approx. 50 % trass content in the base)

NATURAL STONE LAYING

2.1 Thick-bed mortar

NVL 300 Natural stone bedding mortar



- thick-bed mortar
- for preparing and laying natural stone and slabs with simultaneous joining
- with trass to prevent lime efflorescence and discoloration of natural stones

- hydraulically curing and hardening
- binder basis: Trass cement
- grain: 0 – 4 mm
- consumption: approx. 15 kg/m² per 10 mm layer thickness

• Mortar class M 10 based on DIN EN 998-2

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| NVL 300 / 0 – 4 mm | ▲ | ■ | ■ | ▲ | - 31613 4 | Bag | 25 kg | 48 | 410 411 010 | 1 sack | |
| NVL 300 / 0 – 4 mm | ■ | ■ | ■ | ■ | - 31609 7 | Bag | 40 kg | 35 | 410 411 010 | 1 sack | |
| NVL 300 / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 01491 7 | Silo | | | 410 411 010 | 1 t | |

TN Thick-bed trass mortar for natural stone



- bedding mortar for colour-sensitive natural stone pavements e.g. basalt, granite, porphyry etc.
- add Flexo trass emulsion for heavy duty

- for external and interior use
- grain: 0 – 4 mm
- consumption: approx. 15 kg/m² per 10 mm layer thickness

• Standard masonry mortar M10 acc. EN 998-2
NM III according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TN / 0 – 4 mm | ▲ | ■ | ■ | ■ | - 57165 6 | Bag | 40 kg | 35 | 410 411 020 | 1 sack | |

TN-s Special thick-bed trass mortar for natural stone



- bedding mortar for highly colour-sensitive natural stone pavements e.g. Jurassic marble, Carrara etc.
- add Flexo trass emulsion for heavy duty

- for indoor and outdoor applications
- grain: 0 – 4 mm
- consumption: approx. 15 kg/m² per 10 mm layer thickness

• Standard masonry mortar M10 acc. EN 998-2
NM III according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TN-s / 0 – 4 mm | ▲ | ▲ | ▲ | ■ | - 57147 2 | Bag | 40 kg | 35 | 410 411 030 | 1 sack | |

2.2 Medium-bed mortar

TNM-Vario FX Medium-bed trass mortar for natural stone



- patented flexible medium-bed mortar with supporting grain for discoloration-sensitive natural stone slabs
- especially suitable for heavy slabs with extremely deep fluting with high inherent weight and for slabs of varying thickness
- and on uneven subsurfaces
- for interior and external use
- mortar bed thickness 5 to 35 mm
- grain: 0 – 1,5 mm
- consumption: approx. 1.3 kg/m² per mm layer thickness

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TNM-Vario FX light grey | ■ ▲ ■ ■ | - 56912 7 | Bag | 25 kg | 48 | 410 412 020 | 1 sack | |
| TNM-Vario FX natural white | ▲ ▲ ▲ ▲ | - 56913 4 | Bag | 25 kg | 48 | 410 412 020 | 1 sack | |

TNM-flex Medium-bed trass mortar for natural stone



- flexible medium-bed mortar
- for laying and preparing of colour-sensitive, calibrated natural stone slabs and ceramic tiles
- for interior and external use
- mortar bed thickness 5 to 15 mm
- colour: natural white
- grain: 0 – 1,5 mm
- consumption: approx. 1.3 kg/m² per mm layer thickness

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-------------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TNM-flex natural white | ■ ■ ▲ ▲ | - 56911 0 | Bag | 25 kg | 48 | 410 412 010 | 1 sack | |

TNM-flex grey Medium-bed trass mortar for natural stone



- flexible medium-bed mortar
- for laying slightly discoloration-sensitive and deformation-sensitive natural stone pavements
- for laying and setting calibrated natural stone slabs and ceramic tiles
- for interior and external use
- mortar bed thickness 5 to 25 mm
- colour: grey
- grain: 0 – 1,5 mm
- consumption: approx. 1.3 kg/m² per mm layer thickness

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TNM-flex grey | ▲ ■ ▲ ▲ | - 59076 3 | Bag | 25 kg | 48 | 410 412 010 | 1 sack | |

TNM-rapid FX Medium-bed trass mortar for natural stone



- rapid-hardening, flexible, medium-bed, trass mortar with effective crystalline water binder
- for laying slightly discoloration-sensitive and deformation-sensitive natural stone pavements
- for interior and external use
- very high bonding strength
- mortar bed thickness 5 to 25 mm
- preparation time: approx. 40 minutes
- can be walked on and grouted after approx. 5 hours
- grain: 0 – 1,2 mm
- Consumption: approx. 1.25 kg/m² per mm layer thickness

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--------------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TNM-rapid FX light grey | ▲ ■ ▲ ▲ | - 58974 3 | Bag | 25 kg | 48 | 410 412 030 | 1 sack | |

NATURAL STONE LAYING

2.3 Thin-bed mortar

TKN Trass natural stone thin bed adhesive



- white trass adhesive for natural stone laying in thin bed method
- for laying natural stone coverings sensitive to discolouration using the thin-bed method
- in wall and floor areas, interior and exterior
- high bonding strength
- highly flexible
- C2 TE according to DIN EN 12004 / S1 according to DIN EN

- 12002
- very low emissions EC 1^{PLUS}
- grain: 0 – 0,5 mm
- consumption:
approx. 1.5 kg/m² with 4 mm toothing
approx. 2.5 kg/m² with 6 mm toothing
approx. 3.0 kg/m² with 8 mm toothing
approx. 3.5 kg/m² with 10 mm toothing

• C2 TE S1 acc. EN 12004

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TKN white | ▲ ■ ▲ ■ | - 89769 5 | Bag | 25 kg | 48 | 410 412 040 | 1 sack | |



TKN VarioRapid Trass adhesive natural stone variable



- white, rapid hardening, natural stone adhesive for thin and medium bed laying work
- for laying natural stone coverings, artificial stone and ceramics that are sensitive to discolouration
- for use as a contact layer, setting and fixing mortar
- for fixing and moving dry stone walls, block steps, pool surrounds, masonry covers, etc.
- for laying on cement, calcium sulphate, mastic asphalt screed, plasterboard and gypsum fibreboard, old tile coverings, masonry, cement and lime-cement plasters, gypsum plasters, concrete, lightweight concrete, aerated concrete, dry screed, SAFETEC® floor levelling compounds and drainage mortar
- tested in system with composite waterproofing strasser

- DICHT DA-P, FDS 1K, FDS 2K and VAB
- Suitable for terraces and paths etc. in accordance with ZTV-Wegebau
- suitable for wall, floor and electrical surface heating
- for interior and external use
- with early, rapid crystalline water binding
- recipe with original tubag trass
- can be walked on and grouted after approx. 3 hours
- grain: 0 – 0,5 mm
- Consumption:
approx. 2.4 kg/m² with 6 mm toothing
approx. 3.1 kg/m² with 8 mm toothing
approx. 3.5 kg/m² for 10 mm toothing
approx. 1 – 2 kg/m² as contact layer

• C2 FT S1 acc. EN 12004

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TKN VarioRapid white | ▲ ■ ■ ■ | - 77997 7 | Bag | 25 kg | 48 | 410 412 040 | 1 sack | |



2.4 Grout mortar



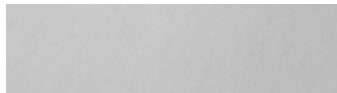
original
tubagTrass

TNF VarioRapid Trass grout mortar for natural stone

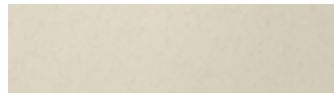
- Highly deformable flexible grout with effective crystalline water retention
- for grouting polished or ground natural stone slabs
- For grouting natural stone slabs and ceramic coverings that are sensitive to discoloration in accordance with the requirements of DIN 18332 and DIN 18352
- suitable for usage categories N1 and N2 in accordance with ZTV Wegebau (Additional Technical Terms of Contract for Road Construction)
- for traffic surfaces subject to light vehicles up to 3.5 t
- In wall and floor areas
- for interior and external use
- recipe with original tubag trass
- fast-setting grout for grouting natural stone and ceramic slabs
- Increased protection against efflorescence and edge discoloration
- Can be walked on and loaded quickly
- Portland cement free
- with high frost and de-icing salt resistance
- for joint width of 1 – 12 mm
- grain: 0 – 0,3 mm
- consumption: depending on slab dimensions and joint width

• CG 2 FWA acc. EN 13888

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--------------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TNF VarioRapid gray | ■ ■ ■ ■ | - 57509 8 | Bucket | 5 kg | 80 | 410 414 080 | 1 Bucket | |
| TNF VarioRapid beige | ■ ■ ■ ■ | - 57510 4 | Bucket | 5 kg | 80 | 410 414 080 | 1 Bucket | |
| TNF VarioRapid anthra- cite | ■ ■ ■ ■ | - 57511 1 | Bucket | 5 kg | 80 | 410 414 080 | 1 Bucket | |
| TNF VarioRapid sand gray | ■ ■ ■ ■ | - 57514 2 | Bucket | 5 kg | 80 | 410 414 080 | 1 Bucket | |



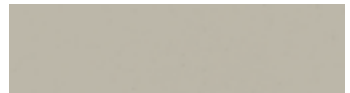
gray*



beige*



anthracite*



sand gray*

* Printing colour deviations possible

Natural stone laying

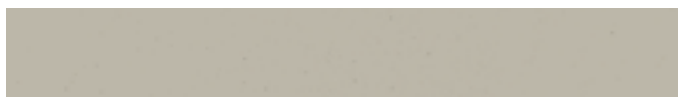
TFP Trass grout mortar for polygonal slabs



- impermeable, flexible grout mortar
- particularly suitable for wide joints up to 5 cm, e.g. for polygonal slabs
- suitable for use-category N1 according to ZTV Wegebau (extra technical requirements for road building)
- for surfaces for mainly pedestrian use
- with good adhesion characteristics on slab edges
- compressive strength: $\geq 10 \text{ N/mm}^2$ (7d), approx. 15 N/mm^2 (28d)
- Colour: grey beige
- grain: 0 – 4 mm
- consumption: depending on slab dimensions and joint width

• Standard masonry mortar M10 acc. EN 998-2

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TFP grey beige | ■ ■ ■ ■ | - 57182 3 | Bag | 25 kg | 48 | 410 414 070 | 1 sack | |
| TFP anthracite | ▲ ▲ ▲ ▲ | - 56223 4 | Bag | 25 kg | 48 | 410 414 070 | 1 sack | |



gray beige*



anthracite*

* Printing colour deviations possible

NATURAL STONE LAYING

2.5 Primer



BHG VarioRapid Construction resin/primer

- Chemical-resistant, 2-component epoxy resin primer for absorbent and non-absorbent substrates
- Binder component for the production of highly stressed bedding mortars with suitable aggregates (fillers and mixing ratios on request)
- for multifunctional use as a primer, binder for epoxy resin mortar and capillary-breaking grouting mortar, coating
- in floor and wall areas
- for interior and external use
- Binder component in the system with tubag DDM thin-layer drainage mortar
- low viscosity
- multifunctional
- Consumption: approx. 0.3 - 0.5 kg/m², depending on the absorbency of the substrate.

| Article | Availability | | | | GTIN/EAN | Container | Container-size | Container/Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|-----------|-----------|----------------|------------------|----------------|------------|------------|
| | N | E | S | W | 4004637 | | | | | | |
| BHG 1kg | ■ | ■ | ■ | ■ | - 55701 8 | Bucket | 1 kg | 264 | 410 411 070 | 1 Bucket | |

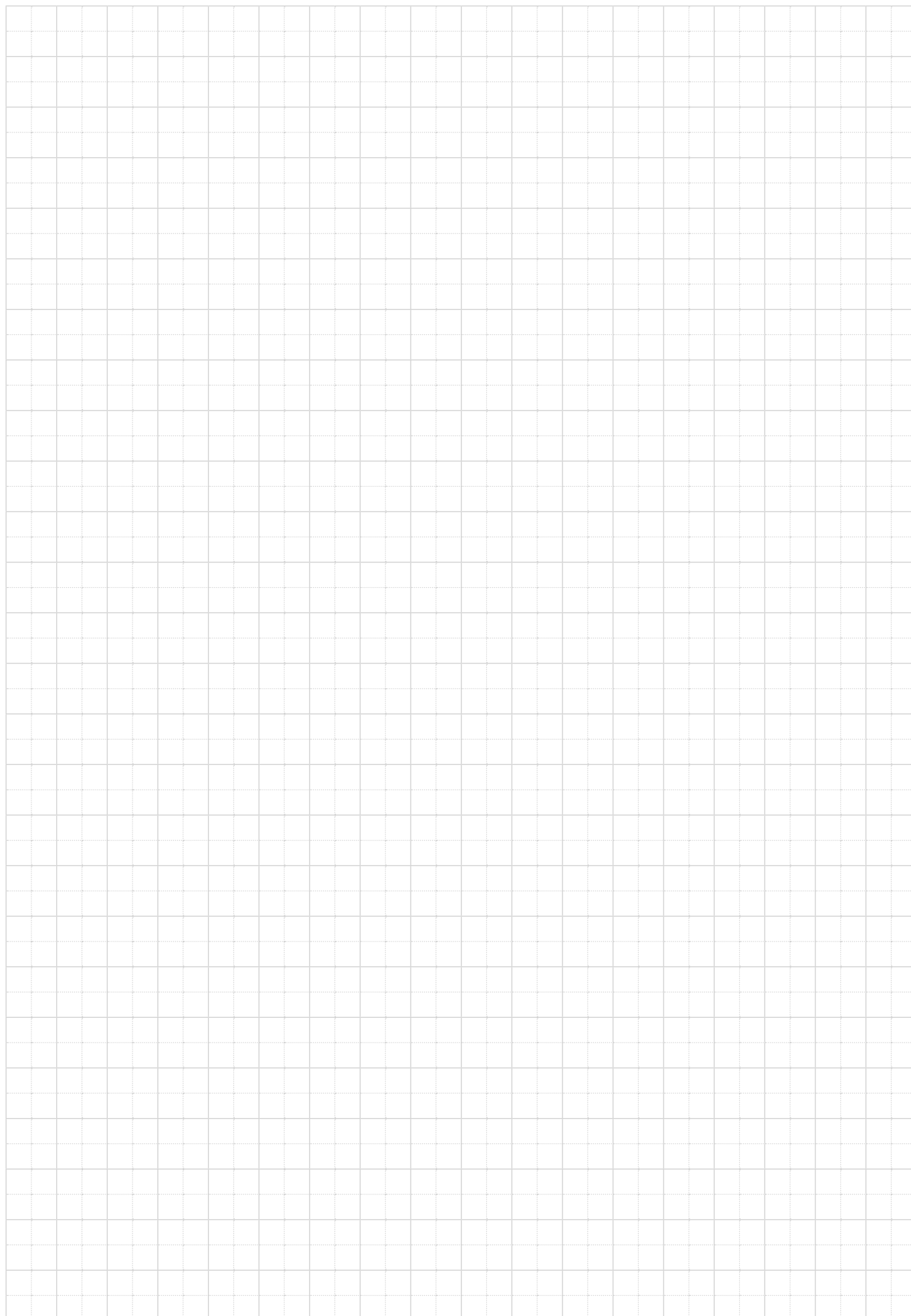
DTG VarioRapid Dispersion primer

- universally applicable dispersion deep primer
- as a primer in the tubag SteinPlus system
- for regulating the absorbency of mineral substrates
- to improve the adhesive bond
- fast-drying
- Applicable diluted with water and undiluted
- pigmented for easier work checking
- consumption: approx. 0.1 – 0.2 l/m² per application

| Article | Availability | | | | GTIN/EAN | Container | Container-size | Container/Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|-----------|-----------|----------------|------------------|----------------|------------|------------|
| | N | E | S | W | 4004637 | | | | | | |
| DTG | ■ | ■ | ■ | ■ | - 78017 1 | Jug | 5 l | | 360 361 130 | 1 Canister | |



New!



| | | |
|---|-----------------------------|----|
| 1 | TRASS BINDER / TRASS MORTAR | 4 |
| 2 | NATURAL STONE LAYING | 10 |

3 GARDENING AND LANDSCAPING

| | | |
|---|-----------------------------------|----|
| 4 | ROAD CONSTRUCTION | 32 |
| 5 | RESTORATION OF HISTORIC BUILDINGS | 42 |

3 GARDENING AND LANDSCAPING

| | | |
|-----|---|----|
| | System table paving and natural stone laying acc. ZTV Wegebau | 22 |
| 3.1 | Water-permeable bedding mortar | 24 |
| 3.2 | Bonding slurry | 26 |
| 3.3 | Water-permeable grout mortar | 27 |
| 3.4 | Water-impermeable grout mortar | 30 |
| 3.5 | Special products | 31 |

Legend:

According to ZTV Wegebau, the following products are needed for a water-permeable paving surface with pedestrian exposure:

Bedding: TDM Trass drainage mortar

Fixation: TNH flex bonding slurry

Joints: PFF paving grout

| | | Bedding mortar drainable | | | | Fixation | |
|---|---|---------------------------|--------------------------------|--|------------------------------|--|--------------------------------|
| | | Trass drainage mortar TDM | Trass drainage mortar TDM plus | Trass compound for single grain mortar TCE | Trass paving drainage mortar | Trass bonding slurry for natural stone | Trass bonding slurry TNH rapid |
| Paved surfaces Natural or concrete stone | Pedestrian exposure acc. N1 ZTV Wegebau* ² | ● | ● | ○ | | ● | ○ |
| | Slight traffic load up to 3.5 t acc. N2 ZTV Wegebau* ² | ● | ● | ○ | ○ | ● | ○ |
| | Traffic load up to 20 t acc. N3 ZTV Wegebau* ² | | | ○ | ● | ● | ○ |
| | High traffic load in civil engineering up to load class 3,2 acc. RStO* ³ | | | | ● | ○ | ● |
| Slabbed surfaces Natural or concrete stone | Pedestrian exposure acc. N1 ZTV Wegebau* ² | ● | ● | ○ | | ● | ○ |
| | Slight traffic load up to 3.5 t acc. N2 ZTV Wegebau* ² | ● | ● | ○ | ○ | ● | ○ |
| | Traffic load up to 20 t acc. N3 ZTV Wegebau* ² | | | ○ | ● | ● | ○ |
| | High traffic load in civil engineering up to load class 3,2 acc. RStO* ³ | | | | ● | ○ | ● |
| Polygonal plates | Pedestrian exposure acc. N1 ZTV Wegebau* ² | ● | ● | ○ | | ● | ○ |
| | Slight traffic load up to 3.5 t acc. N2 ZTV Wegebau* ² | ● | ● | ○ | ○ | ● | ○ |

*¹ Special cases, that are predominantly not regulated within common recommendations

*² Recommendations acc. ZTV Wegebau, FLL/Bonn

*³ Recommendations acc. FGSV M FPGeb.

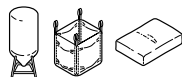
*⁴ Paving grout PFH-B

| Water-permeable grout mortar | | | | | Water-impermeable grout mortar | | | | | Bedding mortar special cases* ¹ | | | |
|---------------------------------|--|----------------------|----------------------|-----------------------|-----------------------------------|---------------------------|-----------------------------|---|---|---|----------------------------------|---|---|
| Paving grout PFF | Paving grout tubag PFK / TFL FineLine | Paving grout PFL2 | Paving grout PFM2 | Paving grout PFV45 | Paving grout PFN | Paving grout PFH light | Paving grout PFH / PFH-B | Trass grout mortar for polygonal plates TFP | Trass grout mortar for natural stone flex TNF | Thin-layer drainage mortar DDM | Trass coarse grain mortar TGM | Natural stone bedding mortar NVL 300 | Thick-bed trass mortar for natural stone TN / TN-s |
| ● | ● | ○ | ○ | | ● | ○ | | ● | ○ | ○ | ● | ○ | ○ |
| | ○ | ○ | ● | ○ | ● | ● | ○ | | | | ○ | | |
| | | | ● | ● | | ● | ● | | | | ○ | | |
| | | | | ○ | | ○ | ● | | | | | | |
| ● | ● | ○ | ○ | | ● | ○ | | ● | ● | ○ | ● | ○ | ○ |
| | ○ | ○ | ● | ○ | ● | ● | ○ | | | | ○ | | |
| | | | ● | ● | | ● | ● | | | | ○ | | |
| | | | | ○ | | ○ | ● | | | | | | |
| ● | | ● | ○ | | | | | ● | | ○ | ● | ○ | ○ |
| | | ○ | ○ | | | | ○ ^{*4} | | | | ○ | | |

● Recommendation

○ Possibility

3.1 Water-permeable bedding mortar

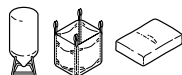


TDM Trass drainage mortar

- trass cement-bound ready-mixed mortar for laying paving stones and natural stone slabs
- for the production of bound, water-permeable bedding layers for the subsequent laying of slabs and pavers
- suitable for usage categories N1 and N2 in accordance with ZTV Wegebau (Additional Technical Terms of Contract for Road Construction)
- for external use
- water-permeable
- frost-resistant
- compressive strength: $\geq 20 \text{ N/mm}^2$
- water-permeability: $\geq 1000 \text{ l/m}^2/\text{h}$
- grain: 1,5 – 4 mm
- consumption: approx. 16 kg/m² per cm layer thickness

• CT-C20-F3 acc. EN 13813 / DIN 18560

| Article | Availability | | | | GTIN/EAN | Container | Container-size | Container/Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|-----------|-----------|----------------|------------------|----------------|------------|------------|
| | N | E | S | W | 4004637 | | | | | | |
| TDM | ■ | ■ | ■ | ■ | - 88785 6 | Bag | 40 kg | 35 | 410 411 040 | 1 sack | |
| TDM | ▲ | ▲ | ▲ | ▲ | - 88786 3 | Silo | | | 410 411 040 | 1 t | |
| TDM | ▲ | ▲ | ▲ | ▲ | - 56064 3 | Bigbag | | 1000 | 410 411 040 | 1 t | |



TDM plus Trass drainage mortar

- capillary-optimised/passivated trass cement-bound ready-mixed mortar for laying paving stones and concrete or natural stone slabs
- for the production of bound, water-permeable bedding layers for the subsequent laying of slabs and pavers
- suitable for usage categories N1 and N2 in accordance with ZTV Wegebau (Additional Technical Terms of Contract for Road Construction)
- for external use
- considerable reduction of water absorption compared to conventional drainage mortars
- against rising moisture
- water-permeable
- frost-resistant
- compressive strength: $\geq 20 \text{ N/mm}^2$
- water-permeability: $\geq 1000 \text{ l/m}^2/\text{h}$
- grain: 1,5 – 4 mm
- consumption: approx. 16 kg/m² per cm layer thickness

| Article | Availability | | | | GTIN/EAN | Container | Container-size | Container/Pallet | Material group | Price unit | Price in € |
|----------|--------------|---|---|---|-----------|-----------|----------------|------------------|----------------|------------|------------|
| | N | E | S | W | 4004637 | | | | | | |
| TDM plus | ▲ | ■ | ▲ | ▲ | - 84108 7 | Bag | 40 kg | 35 | 410 411 050 | 1 sack | |
| TDM plus | ▲ | ▲ | ▲ | ▲ | - 84109 4 | Silo | | | 410 411 050 | 1 t | |
| TDM plus | ▲ | ▲ | ▲ | ▲ | - 84117 9 | Bigbag | | | 410 411 050 | 1 t | |

3.1 Water-permeable bedding mortar



TGM Trass coarse grain mortar

- trass coarse grain mortar for producing extremely permeable bedding mortar
- for bonded laying of paving stones and natural stone slabs as well as in particular also for ceramic coverings (outdoor ceramics)
- for the production of bound, water-permeable bedding layers for the subsequent laying of slabs and pavers
- bedding type 2, suitable for use categories N1 - N3 according to ZTV Wegebau (extra technical requirements for road building)
- for external use
- extremely water-permeable
- frost-resistant
- compressive strength: $\geq 15 \text{ N/mm}^2$
- water-permeability $\geq 10,000 \text{ l/m}^2/\text{h}$
- grain: 2 – 5 mm
- consumption: approx. 16 kg/m² per cm layer thickness

• CT-C16-F3 acc. EN 13813 / DIN 18560

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TGM | ▲ ■ ▲ ■ | - 88830 3 | Bag | 25 kg | 48 | 410 411 060 | 1 sack | |
| TGM | ■ ▲ ▲ ■ | - 88788 7 | Bag | 40 kg | 35 | 410 411 060 | 1 sack | |



DDM Thin-layer drainage mortar

- epoxy-resin based drainage mortar for thin layers
- for producing cement and water-free bedding mortar and levelling compound
- for laying paving stones and natural stone slabs
- for external use
- water-permeable
- with anti-capillary effect to stop rising moisture
- grain: 2 – 3,5 mm
- Consumption: approx. 37 kg / m² with a layer thickness of 25 mm

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| DDM | ▲ ▲ ▲ ▲ | - 55703 2 | Set | 26 kg | 40 | 410 411 070 | 1 Set | |



TCE Trass compound for single grain mortar

- basic mix with cement, trass and special additives
- for producing bonded water-permeable base layers
- recipe with original tubag trass
- mineral
- mixing table for single grain mortar, see technical data

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TCE | ■ ■ ■ ■ | - 57201 1 | Bag | 25 kg | 48 | 410 411 080 | 1 sack | |



TBS Dry fill material

- dry fill material made of natural expanded clay
- insulation and levelling fill for new build and renovation as well as drainage fill
- good heat and sound insulation
- building material class A1 (not flammable)
- bulk density: approx. 275 g/l (2-4 mm), approx. 215 g/l (4-8 mm)
- $\lambda_R = 0.085 \text{ W/(mK)}$ (2-4 mm) / 0.076 W/(mK) (4-8 mm)
- grain: 2 – 4 mm, 4 – 8 mm

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TBS 2 – 4 mm | ■ ■ ▲ ▲ | - 57256 1 | Bag | 50 l | 21 | 410 415 100 | 1 sack | |
| TBS 4 – 8 mm | ▲ ▲ ▲ ■ | - 57258 5 | Bag | 50 l | 21 | 410 415 100 | 1 sack | |

3.2 Bonding slurry



TNH-flex Trass bonding slurry for natural stone

- flexible, natural white bonding slurry
- for improving the adhesion between paving stone and/or slab and bedding mortar
- for interior and external use
- grain: 0 – 0,5 mm
- consumption: approx. 1.0 - 2.0 kg/m² per layer depending on subsurface quality and layer material

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TNH-flex natural white | ▲ | ▲ | ▲ | ▲ | - 57164 9 | Bag | 25 kg | 48 | 410 415 010 | 1 sack | |

3.3 Water-permeable grout mortar



PFF Paving grout

- ready-to-use, water-permeable grout mortar for paving stones, natural stone and ceramic slabs and clinker layers
- suitable for use-category N1 according to ZTV Wegebau (extra technical requirements for road building)
- for surfaces for mainly pedestrian use
- for grouting existing and new paving
- for conventional slurry grouting
- easy and efficient to use thanks to Easy Clean Technology (ECT)
- vacuum-packed
- suitable for road sweeping machines
- compressive strength: approx. 8 N/mm² (can be spread as slurry grout)
- grain: 0,2 – 1,2 mm

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| PFF 1/2 sand | ■ ▲ ■ ■ | - 56381 1 | Bucket | 12.5 kg | 48 | 410 414 010 | 1 Bucket | |
| PFF 1/2 stone grey | ■ ▲ ■ ■ | - 56382 8 | Bucket | 12.5 kg | 48 | 410 414 010 | 1 Bucket | |
| PFF 1/2 basalt | ■ ■ ▲ ■ | - 56383 5 | Bucket | 12.5 kg | 48 | 410 414 010 | 1 Bucket | |
| PFF sand | ■ ■ ■ ■ | - 57747 4 | Bucket | 25 kg | 24 | 410 414 010 | 1 Bucket | |
| PFF stone grey | ■ ■ ■ ■ | - 57749 8 | Bucket | 25 kg | 24 | 410 414 010 | 1 Bucket | |
| PFF basalt | ■ ■ ■ ■ | - 57748 1 | Bucket | 25 kg | 24 | 410 414 010 | 1 Bucket | |



sand*



stone grey*



basalt*

* Printing colour deviations possible



New!

PFF ProLine Paving grout

- 1-component, ready-to-use, water-permeable paving joint mortar
- for repointing and repairing natural, concrete and clinker pavements
- for paving, natural stone and ceramic slabs and clinker pavements
- suitable for use-category N2 according to ZTV Wegebau (extra technical requirements for road building)
- for traffic surfaces subject to light vehicles up to 3.5 t
- for conventional slurry grouting
- vacuum-packed
- suitable for road sweeping machines
- water-permeable
- for light to medium traffic load
- compressive strength: ≥ 15 N/mm²
- grain: 0,3 – 0,9 mm

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| PFF ProLine sand | ■ ■ ■ ■ | - 57872 3 | Bucket | 25 kg | 40 | 410 414 010 | 1 Bucket | |
| PFF ProLine stone grey | ■ ■ ■ ■ | - 57840 2 | Bucket | 25 kg | 40 | 410 414 010 | 1 Bucket | |
| PFF ProLine basalt | ■ ■ ■ ■ | - 57835 8 | Bucket | 25 kg | 40 | 410 414 010 | 1 Bucket | |



sand*



stone grey*



basalt*

* Printing colour deviations possible

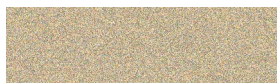
3.3 Water-permeable grout mortar



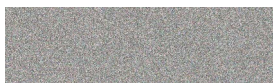
tubag PFK Paving grout

- ready-to-use, water-permeable grout mortar for ceramic coverings, paving stones, natural stone slabs and clinker coverings
- suitable for usage categories N1 and N2 in accordance with ZTV Wegebau (Additional Technical Terms of Contract for Road Construction)
- for grouting existing and new paving
- for conventional slurry grouting
- easy and efficient to use thanks to Easy Clean Technology (ECT)
- vacuum-packed
- suitable for road sweeping machines
- compressive strength: $\geq 15 \text{ N/mm}^2$
- grain: 0 – 0,5 mm

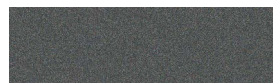
| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| tubag PFK sand | ■ ■ ■ ■ | - 57918 8 | Bucket | 15 kg | 50 | 410 416 010 | 1 Bucket | |
| tubag PFK concrete grey | ■ ■ ■ ■ | - 57916 4 | Bucket | 15 kg | 50 | 410 416 010 | 1 Bucket | |
| tubag PFK slate | ■ ■ ■ ■ | - 57917 1 | Bucket | 15 kg | 50 | 410 416 010 | 1 Bucket | |
| tubag PFK black | ■ ■ ■ ■ | - 57915 7 | Bucket | 15 kg | 50 | 410 416 010 | 1 Bucket | |



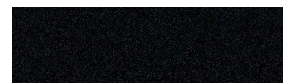
sand*



stone grey*



basalt*



black*

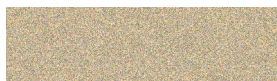
* Printing colour deviations possible

TFL FineLine paving joint mortar outdoor ceramics

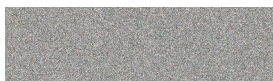


- 2-component, synthetic resin-bonded, water-permeable paving stone grout mortar
- for grouting existing and new paving and slabbed surfaces
- suitable for use-category N2 according to ZTV Wegebau (extra technical requirements for road building)
- for traffic surfaces subject to light vehicles up to 3.5 t
- can even be used in light rain, no covering required
- also for narrow joints
- suitable for road sweeping machines
- compressive strength: $\geq 15 \text{ N/mm}^2$
- grain: 0 – 0,5 mm

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TFL sand | ▲ ■ ▲ ■ | - 57036 9 | Bucket | 15 kg | 24 | 410 414 025 | 1 Bucket | |
| TFL concrete grey | ▲ ■ ■ ■ | - 57038 3 | Bucket | 15 kg | 24 | 410 414 025 | 1 Bucket | |
| TFL slate | ▲ ■ ▲ ■ | - 57039 0 | Bucket | 15 kg | 24 | 410 414 025 | 1 Bucket | |
| TFL black | ▲ ▲ ▲ ▲ | - 57056 7 | Bucket | 15 kg | 24 | 410 414 025 | 1 Bucket | |



sand*



stone grey*



basalt*



black*

* Printing colour deviations possible

3.3 Water-permeable grout mortar



Optimised
formulation!
No water addition
necessary

PFL2 Paving grout

- 2-component, synthetic resin-bonded, water-permeable paving stone grout mortar
- for repointing and repairing natural, concrete and clinker pavements
- for slab coverings made of natural stone, polygonal slabs and ceramic tiles
- suitable for use-category N2 according to ZTV Wegebau (extra technical requirements for road building)
- for traffic surfaces subject to light vehicles up to 3.5 t
- can also be used in drizzle, then no covering is necessary
- sweeper suction machines suitable
- frost and de-icing salt-resistant
- no water addition necessary
- water-permeable
- for light traffic load
- compressive strength: $\geq 15 \text{ N/mm}^2$
- grain: 0,2 – 1,2 mm

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| PFL2 sand | ▲ ■ ▲ ■ | - 57020 8 | Bucket | 25 kg | 24 | 410 414 030 | 1 Bucket | |
| PFL2 stone grey | ▲ ■ ▲ ■ | - 57028 4 | Bucket | 25 kg | 24 | 410 414 030 | 1 Bucket | |
| PFL2 basalt | ▲ ■ ▲ ■ | - 57023 9 | Bucket | 25 kg | 24 | 410 414 030 | 1 Bucket | |



sand*



stone grey*



basalt*

* Printing colour deviations
possible



Optimised
formulation!
No water addition
necessary

PFM2 Paving grout

- 2-component, synthetic resin-bonded, water-permeable paving stone grout mortar
- for repointing and repairing natural, concrete and clinker pavements
- suitable for use-category N3 according to ZTV Wegebau (extra technical requirements for road building)
- for traffic surfaces with vehicles up to 20 t
- can also be used in drizzle, then no covering is necessary
- sweeper suction machines suitable
- frost and de-icing salt-resistant
- no water addition necessary
- water-permeable
- for light to medium traffic load
- compressive strength: $\geq 25 \text{ N/mm}^2$
- grain: 0,2 – 1,2 mm

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| PFM2 sand | ■ ■ ■ ■ | - 57007 9 | Bucket | 25 kg | 24 | 410 414 040 | 1 Bucket | |
| PFM2 stone grey | ■ ■ ■ ■ | - 57009 3 | Bucket | 25 kg | 24 | 410 414 040 | 1 Bucket | |
| PFM2 basalt | ■ ■ ■ ■ | - 57008 6 | Bucket | 25 kg | 24 | 410 414 040 | 1 Bucket | |



sand*



stone grey*



basalt*

* Printing colour deviations
possible

3.4 Water-impermeable grout mortar

PFN Paving grout



Verbesserte
Qualität!

ECT
Easy Clean Technology



- trass cement-bonded paving stone grout mortar for natural and concrete paving
- suitable for use-category N3 according to ZTV Wegebau (extra technical requirements for road building)
- fulfills the requirements of FGSV MF P geb. 618/2 paving joint mortar type B
- easy and efficient to use thanks to Easy Clean Technology (ECT)
- impermeable
- compressive strength: $\geq 30 \text{ N/mm}^2$
- Reduces the risk of lime efflorescence
- grain: 0 – 1,25 mm

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| PFN light grey | ■ ■ ■ ■ | - 57998 0 | Bag | 25 kg | 48 | 410 414 060 | 1 sack | |
| PFN anthracite | ■ ■ ■ ■ | - 56758 1 | Bag | 25 kg | 48 | 410 414 060 | 1 sack | |
| PFN beige | ■ ■ ■ ■ | - 56759 8 | Bag | 25 kg | 48 | 410 414 060 | 1 sack | |



sand*



stone grey*



basalt*

* Printing colour deviations possible

3.5 Special products

**New!**

ESP Sweeping sand

- 1-component, ready-to-use special joint sand
- for repointing and repairing natural, concrete and clinker pavements
- for paving stones made of concrete and natural stone and clinker pavements
- for paved areas with traffic in **unbound construction method**
- for surfaces with normal traffic load
- stable and resistant joint sealing material for paved surfaces in unbound construction methods
- for joint widths ≥ 2 mm and < 4 mm
- water-permeable
- grain: 0,2 – 1,0 mm
- Consumption:
approx. 1.5 – 1.7 kg per litre of joint space
approx. 3 – 4 kg/m² for concrete block paving (40 mm joint depth)

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| ESP sand | ■ ■ ■ ■ | - 57871 6 | Bucket | 25 kg | 32 | 410 414 010 | 1 Bucket | |
| ESP stone grey | ■ ■ ■ ■ | - 57823 5 | Bucket | 25 kg | 32 | 410 414 010 | 1 Bucket | |
| ESP basalt | ■ ■ ■ ■ | - 57826 6 | Bucket | 25 kg | 32 | 410 414 010 | 1 Bucket | |



sand*



stone grey*



basalt*

* Printing colour deviations possible



GaLaKreativ PUR-Binder

- single-component, solvent-free polyurethane binder
- for pebbles, natural stone and silica sands
- for decorative garden design
- water-permeable
- transparent, light-fast and UV-resistant
- preparation time: approx. 75 minutes
- can be walked on after approx. 8 hours
- can take loads after approx. 2 days
- consumption: 2 – 6 % by weight of aggregate
- 1-kg bottle available in decorative presentation box (4 bottles per box)

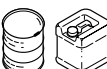
| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| GaLaKreativ PUR binder | ▲ ▲ ■ ■ | - 56178 7 | Bottle | 1 kg | 288 | 410 414 090 | 1 Bottle | |
| GaLaKreativ PUR binder | ▲ ▲ ▲ ▲ | - 56179 4 | Bucket | 5 kg | 72 | 410 414 090 | 1 Bucket | |
| GaLaKreativ PUR binder | ▲ ▲ ▲ ▲ | - 56602 7 | Bucket | 30 kg | 16 | 410 414 090 | 1 Bucket | |



FHI Grout aid and impregnation

- water-based, low-solvent special impregnation
- reduction of resin veils and residues
- for many undergrounds like nature and concrete blocks
- reduces absorbency
- oil-, grease- and water-repellent
- without visible film formation
- ready-to-use
- yield: depending on surface element approx. 7 - 20 m²/litr.

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| FHI | ■ ■ ▲ ■ | - 59067 1 | Jug | 2.5 l | 144 | 410 415 095 | 1 Canister | |



FTD Flexo trass emulsion

- highly concentrated synthetic additive for trass natural stone mortar for thick-, medium- and thin-bed processes
- for producing flexible mortar systems
- consumption: depending on the mortar used and the requirements approx. 1.0 - 2.5 l Flexo trass emulsion per 25 kg bag
- mixing ratio for the mixing water: 1 volume part Flexo trass emulsion to 5 volume parts clean water

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| FTD | ▲ ▲ ▲ ■ | - 57189 2 | Jug | 5 l | 200 | 410 415 020 | 1 Canister | |
| FTD | ▲ ▲ ▲ ▲ | - 57188 5 | Fass | 100 l | 1 | 410 415 020 | 1 Barrel | |

Delivery regions

→ N = NORTH

E = EAST

S = SOUTH

W = WEST

Availability

→ ■ = available

▲ = on request

| | | |
|---|-----------------------------|----|
| 1 | TRASS BINDER / TRASS MORTAR | 4 |
| 2 | NATURAL STONE LAYING | 10 |
| 3 | GARDENING AND LANDSCAPING | 20 |

4 ROAD CONSTRUCTION

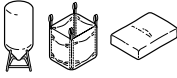
| | | |
|---|-----------------------------------|----|
| 5 | RESTORATION OF HISTORIC BUILDINGS | 42 |
|---|-----------------------------------|----|

4 ROAD CONSTRUCTION

| | | |
|-----|--------------------|----|
| 4.1 | Bedding mortar | 34 |
| 4.2 | Bonding slurry | 35 |
| 4.3 | Paving grout | 36 |
| 4.4 | Contraction joints | 38 |
| 4.5 | Special mortar | 40 |
| 4.6 | Accessories | 41 |

ROAD CONSTRUCTION

4.1 Bedding mortar



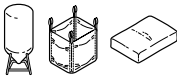
TPM-D 4 mm Trass paving drainage mortar

- free-draining bedding mortar
- for laying paving slab surfaces
- for surfaces with heavy traffic loads
- specially developed for road construction

- with anti-capillary effect to stop rising moisture
- compressive strength: $\geq 35 \text{ N/mm}^2$
- grain: 0 – 4 mm

• CT-C30-F5 acc. EN 13813 / DIN 18560

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TPM-D4 | ■ | ■ | ▲ | ■ | - 56057 5 | Bag | 40 kg | 30 | 420 421 010 | 1 sack | |
| TPM-D4 | ▲ | ▲ | ▲ | ▲ | - 55704 9 | Silo | | | 420 421 010 | 1 t | |
| TPM-D4 | ▲ | ▲ | ▲ | ▲ | - 55713 1 | Bigbag | | | 420 421 010 | 1 t | |



rapid

TPM-D 4 mm rapid Trass paving drainage mortar

- free-draining bedding mortar
- for laying paving slab surfaces
- for surfaces with heavy traffic loads
- specially developed for road construction
- rapid version: accelerated setting for early traffic release

- with anti-capillary effect to stop rising moisture
- compressive strength:
1d $\geq 20 \text{ N/mm}^2$
7d $\geq 35 \text{ N/mm}^2$
28d $\geq 40 \text{ N/mm}^2$
- grain: 0 – 4 mm

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TPM-D4 rapid | ▲ | ▲ | ▲ | ▲ | - 56058 2 | Bag | 40 kg | 30 | 420 421 020 | 1 sack | |
| TPM-D4 rapid | ▲ | ▲ | ▲ | ▲ | - 56059 9 | Silo | | | 420 421 020 | 1 t | |
| TPM-D4 rapid | ▲ | ▲ | ▲ | ▲ | - 56069 8 | Bigbag | | | 410 418 020 | 1 t | |

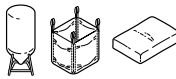
4.1 Bedding mortar



TPM-D 8 mm Trass paving drainage mortar

- free-draining bedding mortar
- for laying paving slab surfaces
- for surfaces with heavy traffic loads
- specially developed for road construction
- with anti-capillary effect to stop rising moisture
- compressive strength: $\geq 35 \text{ N/mm}^2$
- grain: 0 – 8 mm

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TPM-D8 | ▲ | ▲ | ▲ | ■ | - 55755 1 | Bag | 40 kg | 30 | 420 421 030 | 1 sack | |
| TPM-D8 | ▲ | ▲ | ▲ | ▲ | - 55756 8 | Silo | | | 420 421 030 | 1 t | |



rapid

TPM-D 8 mm rapid Trass paving drainage mortar

- free-draining bedding mortar
- for laying paving slab surfaces
- for surfaces with heavy traffic loads
- specially developed for road construction
- rapid version: accelerated setting for early traffic release
- with anti-capillary effect to stop rising moisture
- compressive strength:
 - 1d $\geq 20 \text{ N/mm}^2$
 - 7d $\geq 35 \text{ N/mm}^2$
 - 28d $\geq 40 \text{ N/mm}^2$
- grain: 0 – 8 mm

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TPM-D8 rapid | ▲ | ▲ | ▲ | ▲ | - 55710 0 | Bag | 40 kg | 30 | 420 421 040 | 1 sack | |
| TPM-D8 rapid | ▲ | ▲ | ▲ | ▲ | - 55711 7 | Silo | | | 420 421 040 | 1 t | |
| TPM-D8 rapid | ▲ | ▲ | ▲ | ▲ | - 56072 8 | Bigbag | | | 410 418 040 | 1 t | |

4.2 Bonding slurry



TNH rapid Trass bonding slurry

- grey, fast-hardening bonding slurry
- for improving the adhesion between paving stone and/or slab and bedding mortar
- for interior and external use
- polymer-modified
- flexible
- grain: 0 – 0,5 mm
- consumption: approx. 1.0 - 2.0 kg/m² per layer depending on subsurface quality and layer material

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TNH rapid | ■ | ■ | ▲ | ■ | - 56086 5 | Bag | 25 kg | 48 | 420 423 050 | 1 sack | |

ROAD CONSTRUCTION

4.3 Paving stone grout mortar

PFH light Paving grout



- cement-bonded paving stone grout mortar with trass for concrete slabs and low-strength slabs
- suitable for use-category N3 according to ZTV Wegebau (extra technical requirements for road building)
- for surfaces with heavy traffic loads
- specially developed for road construction

- impermeable
- fulfils the requirements of the FGSV data sheet M FP bonded 618/2 Paving stone grout mortar Type B
- with high frost and de-icing salt resistance
- compressive strength: $\geq 30 \text{ N/mm}^2$
- grain: 0 – 1,2 mm

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| PFH light grey | ■ | ■ | ▲ | ■ | - 55005 7 | Bag | 25 kg | 48 | 420 422 030 | 1 sack | |
| PFH light grey | ▲ | ▲ | ▲ | ▲ | - 55008 8 | Silo | | | 420 422 030 | 1 t | |
| PFH light grey | ▲ | ▲ | ▲ | ■ | - 55017 0 | Bigbag | | | 420 422 030 | 1 t | |
| PFH light anthracite | ▲ | ▲ | ▲ | ■ | - 55006 4 | Bag | 25 kg | 48 | 420 422 030 | 1 sack | |
| PFH light beige | ▲ | ▲ | ▲ | ▲ | - 55011 8 | Bag | 25 kg | 48 | 420 422 030 | 1 sack | |

PFH Paving grout



- cement-bonded paving stone grout mortar with trass for natural stone and concrete paving
- for surfaces with heavy traffic loads
- specially developed for road construction
- impermeable

- fulfils the requirements of the FGSV data sheet M FP bonded 618/2 Paving stone grout mortar Type A
- compressive strength: $\geq 50 \text{ N/mm}^2$
- grain: 0 – 1,2 mm

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| PFH grey | ■ | ■ | ■ | ■ | - 55000 2 | Bag | 25 kg | 48 | 420 422 010 | 1 sack | |
| PFH grey | ▲ | ▲ | ▲ | ▲ | - 56455 9 | Silo | | | 420 422 010 | 1 t | |
| PFH grey | ▲ | ▲ | ▲ | ▲ | - 56750 5 | Bigbag | | | 410 419 010 | 1 t | |
| PFH anthracite | ▲ | ▲ | ▲ | ■ | - 55002 6 | Bag | 25 kg | 48 | 420 422 010 | 1 sack | |
| PFH beige | ▲ | ▲ | ▲ | ▲ | - 55003 3 | Bag | 25 kg | 48 | 420 422 010 | 1 sack | |

PFH-B Paving grout



- cement-bonded paving stone grout mortar with trass for natural stone and concrete paving
- for surfaces with heavy traffic loads
- specifically for large paving stones with wide joints
- specially developed for road construction

- impermeable
- fulfils the requirements of the FGSV data sheet M FP bonded 618/2 Paving stone grout mortar Type A
- compressive strength: $\geq 45 \text{ N/mm}^2$
- grain: 0 – 2,5 mm

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| PFH-B grey | ▲ | ▲ | ▲ | ■ | - 55013 2 | Bag | 25 kg | 48 | 420 422 015 | 1 sack | |
| PFH-B anthracite | ▲ | ▲ | ▲ | ▲ | - 55015 6 | Bag | 25 kg | 48 | 420 422 015 | 1 sack | |
| PFH-B beige | ▲ | ▲ | ▲ | ■ | - 55014 9 | Bag | 25 kg | 48 | 420 422 015 | 1 sack | |

4.3 Paving stone grout mortar

PFH rapid Paving grout



- cement-bonded rapid-hardening paving stone grout mortar with trass for natural stone and concrete paving
- for surfaces with heavy traffic loads
- specially developed for road construction
- impermeable
- rapid version: accelerated setting for early traffic release
- fulfils the requirements of the FGSV data sheet M FP bonded 618/2 Paving stone grout mortar Type A
- compressive strength:
 - 1d ≥ 25 N/mm²
 - 7d ≥ 40 N/mm²
 - 28d ≥ 50 N/mm²
- grain: 0 – 1,2 mm

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| PFH rapid grey | ▲ | ▲ | ▲ | ■ | - 55036 1 | Bag | 25 kg | 48 | 420 422 020 | 1 sack | |
| PFH rapid grey | ▲ | ▲ | ▲ | ▲ | - 55037 8 | Silo | | | 420 422 020 | 1 t | |
| PFH rapid anthracite | ▲ | ▲ | ▲ | ▲ | - 55145 0 | Bag | 25 kg | 48 | 420 422 020 | 1 sack | |
| PFH rapid beige | ▲ | ▲ | ▲ | ▲ | - 55144 3 | Bag | 25 kg | 48 | 420 422 020 | 1 sack | |

PFV30 Paving grout



- 3-component, formulated reaction resin mortar with defined mineral grain mixture for heavy traffic loads
- For repointing and repairing paving and natural stone slabs as well as clinker pavements
- suitable for use-category N3 according to ZTV Wegebau (extra technical requirements for road building)
- suitable for use in load class 0.3 RSt0 12 (poss. also higher)
- specially developed for road construction
- with high frost and de-icing salt resistance
- suitable for road sweeping machines
- compressive strength: ≥ 30 N/mm²
- grain: 0,3 – 1,2 mm

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| PFV30 sand | ▲ | ▲ | ▲ | ■ | - 56516 7 | Set | 27.5 kg | 40 | 410 414 051 | 1 Set | |
| PFV30 stone grey | ▲ | ▲ | ▲ | ■ | - 56517 4 | Set | 27.5 kg | 40 | 410 414 051 | 1 Set | |
| PFV30 basalt | ▲ | ▲ | ▲ | ■ | - 56518 1 | Set | 27.5 kg | 40 | 410 414 051 | 1 Set | |



sand*



stone grey*



basalt*

* Printing colour deviations possible

PFV45 Paving grout



- 2-component, synthetic resin bonded, slightly water-permeable paving stone grout mortar for heavy traffic loads
- for grouting existing and new paving
- suitable for use-category N3 according to ZTV Wegebau (extra technical requirements for road building)
- suitable for use in load class 0.3 RSt0 12 (poss. also higher)
- can even be used in light rain, no covering required
- suitable for road sweeping machines
- compressive strength: ≥ 45 N/mm²
- grain: 0,3 – 2,5 mm

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| PFV45 sand | ■ | ▲ | ▲ | ■ | - 57032 1 | Bucket | 25 kg | 24 | 410 414 050 | 1 Bucket | |
| PFV45 stone grey | ■ | ▲ | ▲ | ■ | - 57031 4 | Bucket | 25 kg | 24 | 410 414 050 | 1 Bucket | |
| PFV45 basalt | ■ | ▲ | ▲ | ■ | - 57033 8 | Bucket | 25 kg | 24 | 410 414 050 | 1 Bucket | |



sand*



stone grey*



basalt*

* Printing colour deviations possible

4.4 Contraction joints



BFM-G 2K Pourable contraction joint compound

- 2-component sealant
- for producing contraction joints between concrete components which are subject to mechanical loads from traffic, pedestrians or temperature-dependent movements
- pourable, self-levelling consistency for pavements with up to 3% pitch
- admissible total deformation up to 35% of the joint width
- frost and de-icing salt-resistant
- suitable according to ZTV-Fug StB15
- fuel-resistant
- can withstand vehicle loads
- Consumption: approx. 1 ml per cm³ joint volume

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| BFM-G 2K grey | ▲ | ▲ | ▲ | ▲ | - 57250 9 | Set | 2.5 l | 120 | 410 415 030 | 1 Set | |
| BFM-G 2K grey | ▲ | ▲ | ▲ | ▲ | - 57254 7 | Set | 4 l | 120 | 410 415 030 | 1 Set | |
| BFM-G 2K black | ▲ | ▲ | ▲ | ▲ | - 57248 6 | Set | 2.5 l | 120 | 410 415 030 | 1 Set | |
| BFM-G 2K black | ▲ | ▲ | ▲ | ▲ | - 57255 4 | Set | 4 l | 120 | 410 415 030 | 1 Set | |



BFP-S 2K Primer for BFM-G 2K

- 2-component adhesion promoter
- for pre-treatment of stone surfaces on absorbent substrates, e.g. granite or artificial stone
- for external and interior use
- consumption: approx. 0.01 - 0.02 l/m, depending on the joint dimensions

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| BFP-S 2K | ▲ | ■ | ▲ | ▲ | - 57239 4 | Set | 1 l | 240 | 410 415 040 | 1 Set | |



BFM-flex Contraction joint compound flex

- single-component PU-sealant
- for producing standard-compliant floor and connection joints (from 10 mm width)
- admissible total deformation up to 25% of the joint width
- high mechanical strength
- fuel-resistant
- Consumption: approx. 1 ml per cm³ joint volume

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------|--------------|---|---|---|---------------------|---------------------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| BFM-flex | ■ | ■ | ▲ | ■ | - 29938 3 | Schlauch- beutel | 600 ml | 880 | 410 415 050 | 1 sack | |

4.4 Contraction joints



BFF Plex Contraction joint tape

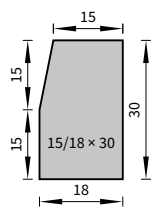
- universal joint tape, easy to cut to length and use on the building site
- joint tape made of physically crosslinked polyolefin foam (PE low-expansion foam)
- for producing joint inserts (joint fillers) for contraction joints
- particularly suitable as underfill strip for permanently elastic joint grouting
- heat-resistant for hot-cast joints
- with defined compression hardness and resilience
- frost and de-icing salt-resistant
- roll width: 30 cm



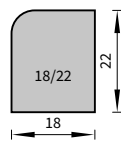
| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| BFF Plex 10 mm | ■ | ■ | ▲ | ■ | - 63242 5 | Roll | 15 m | | 410 415 060 | 1 Roll | |
| BFF Plex 8 mm | ▲ | ■ | ▲ | ▲ | - 63241 8 | Roll | 20 m | | 410 415 060 | 1 Roll | |
| BFF Plex 6 mm | ▲ | ■ | ▲ | ▲ | - 63244 9 | Roll | 25 m | | 410 415 060 | 1 Roll | |

BFF-H / BFF-N Expansion joints, filler strips and profiles

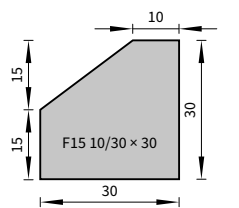
| Article | Availability | | | | GTIN/EAN 4004637 | |
|---------|--------------|---|---|---|---------------------|---|
| | N | E | S | W | | |
| BFF-H | ▲ | ▲ | ▲ | ▲ | - 56052 0 | New rubber / possible profiles on request |
| BFF-N | ▲ | ▲ | ▲ | ▲ | - 56054 4 | PU rubber / possible profiles on request |



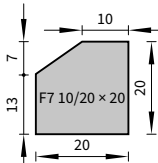
High curbs



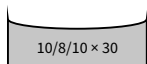
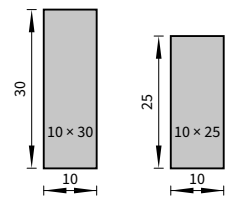
Round curbs



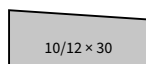
Flat curbs



Low curbs



Gutters



Filling strips for paved areas

Detailed article list on request

ROAD CONSTRUCTION

4.5 Special Mortar

SBM-HS Sewer and manhole mortar HS



- civil engineering mortar with excellent sulphate resistance
- for new builds and the renovation of drain, sewer and manhole structures
- according to test report from the IAB – Institute for Applied Building Research in Weimar, corresponds to the requirements of exposure class XWW3 according to DIN 19573
- high chemical resistance to aggressive wastewater, and particularly to sulphates
- recipe with original tubag trass
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: approx. 45 kg/m² with NF K and RF K drain clinker

- **Standard masonry mortar M25 acc. EN 998-2**
NM IIIa according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| SBM-HS / 0 – 2 mm | ■ | ■ | ▲ | ■ | - 12780 8 | Bag | 25 kg | 48 | 420 424 010 | 1 sack | |
| SBM-HS / 0 – 2 mm | ▲ | ▲ | ▲ | ▲ | - 12782 2 | Silo | | | 420 424 010 | 1 t | |
| SBM-HS / 0 – 4 mm | ■ | ■ | ▲ | ■ | - 12781 5 | Bag | 25 kg | 48 | 420 424 010 | 1 sack | |
| SBM-HS / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 12783 9 | Silo | | | 420 424 010 | 1 t | |

SVG rapid Manhole grouting mortar



- rapid-curing grouting mortar with high early strength
- WW manhole head mortar according to DIN 19573
- specifically for height-regulation of manhole covers
- product according to DIN EN 1504-6 "Anchoring of rebar"
- for external and interior use
- consistency: free-flowing
- expansion rate: ≥ 0.1%
- with high sulphate-resistance
- compressive strength:
1h ≥ 15 N/mm²
24h ≥ 40 N/mm²
28d ≥ 55 N/mm²
- grain: 0 – 1 mm
- consumption: depending on application

- **Exterior plaster acc. EN 1504-6**

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| SVG rapid | ▲ | ▲ | ▲ | ▲ | - 65714 5 | Bag | 25 kg | 48 | 420 424 020 | 1 sack | |

WSZ Water-stop



- special mounting mortar
- for immediate sealing of local leaks and for fast assembly jobs
- for sealing pipe liners and/or connections
- preparation time: approx. 30 seconds
- compressive strength: ≥ 20 N/mm² (28d)
- grain: 0 – 0,1 mm
- consumption: depending on application

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| WSZ | ▲ | ▲ | ▲ | ▲ | - 03020 7 | Bucket | 5 kg | 100 | 420 424 040 | 1 Bucket | |

4.6 Additives

Spray lance

- for pre-wetting and light cleaning of grouted paving stone and slab surfaces



| Article | Availability | | | | GTIN/EAN 4004637 | Material group | Price unit | Price in € |
|-------------|--------------|---|---|---|---------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | |
| Spray lance | ▲ | ■ | ▲ | ■ | - 56068 1 | 410 415 080 | 1 piece | |

Rbas system Roller bedding peel-off rail

- special tool
- for the optimal height-adjusted removal of bonded tubag bedding mortar
- Optimal for laying ceramic tiles
- Basic module Rbas PSA for holding a rectangular profile or a commercially available spirit level (rectangular profile or spirit level not included in the scope of delivery)

Rbas PSA 50/21: 50 mm width, 21 mm height

- Rbas AZS puller rail suitable for 20 and 30 mm thick slab coverings, puller rail to be ordered separately
- Rbas AZS 20700: 20 mm surface, 700 mm pull-off width
- Rbas AZS 20900: 20 mm surface, 900 mm pull-off width
- Rbas AZS 30700: 30 mm surface, 700 mm pull-off width
- Rbas AZS 30900: 30 mm surface, 900 mm pull-off width

| Article | Availability | | | | GTIN/EAN 4004637 | Material group | Price unit | Price in € |
|----------------|--------------|---|---|---|---------------------|----------------|---------------|------------|
| | N | E | S | W | | | | |
| Rbas PSA 5021 | ▲ | ▲ | ▲ | ▲ | - 56095 7 | 410 415 110 | 1 piece | |
| Rbas AZS 20700 | ▲ | ▲ | ▲ | ▲ | - 56114 5 | 410 415 110 | 1 piece | |
| Rbas AZS 20900 | ▲ | ▲ | ▲ | ▲ | - 56116 9 | 410 415 110 | 1 piece | |
| Rbas AZS 30700 | ▲ | ▲ | ▲ | ▲ | - 56102 2 | 410 415 110 | 1 piece | |
| Rbas AZS 30900 | ▲ | ▲ | ▲ | ▲ | - 56112 1 | 410 415 110 | 1 piece | |

Basic module with spirit level



Puller rail



RBAS ABS-K Spacer with edge protection

- Laying aid for exact joint widths
- for laying paving and slab coverings
- high abrasion resistance

- high UV resistance
- Bag with 9 pieces of each size



New!

| Article | Availability | | | | Joint width | GTIN/EAN 4004637 | Material group | Price unit | Price in € |
|------------|--------------|---|---|---|-------------|---------------------|----------------|---------------|------------|
| | N | E | S | W | | | | | |
| ABS-K 3 mm | ▲ | ▲ | ▲ | ▲ | 3 mm | - 56158 9 | 410 415 118 | 1 Bag | |
| ABS-K 4 mm | ▲ | ▲ | ▲ | ▲ | 4 mm | - 56157 2 | 410 415 118 | 1 Bag | |
| ABS-K 5 mm | ▲ | ▲ | ▲ | ▲ | 5 mm | - 56156 5 | 410 415 118 | 1 Bag | |

| | | |
|---|-----------------------------|----|
| 1 | TRASS BINDER / TRASS MORTAR | 4 |
| 2 | NATURAL STONE LAYING | 10 |
| 3 | GARDENING AND LANDSCAPING | 20 |
| 4 | ROAD CONSTRUCTION | 32 |

5 RESTORATION OF HISTORIC BUILDINGS

5 RESTORATION OF HISTORIC BUILDINGS

| | | |
|-----|--|----|
| | System table binders | 44 |
| 5.1 | Mortar for laying cut stones | 46 |
| 5.2 | Grout mortar | 49 |
| 5.3 | Base plasters | 52 |
| 5.4 | Renovation and functional plasters | 54 |
| 5.5 | Fine plasters | 55 |
| 5.6 | Natural stone slurries | 56 |
| 5.7 | Anchor, backfill and grout mortar | 57 |
| 5.8 | Stone supplementary mortar / blasting material | 59 |

CALCIUM LIME

CL 90 CL 80 CL 70

NATURAL HYDRAULIC LIME

NHL 2 NHL 3,5 NHL 5

FORMULATED LIME (A, B, C)

FL 2 FL 3,5 FL 5

HYDRAULIC LIME

HL 2 HL 3,5 HL 5

| | KGL Lime smoothness | NHL-Lime | | | | | | FL-Lime | | | | | | trass | | | | |
|--------------------------------|---------------------|---|-----------------------------------|------------------------------|---------------------------------------|------------------------------|------------------------------|--|----------------------------------|-------------------------------|-----------------------------|--|----------------------------|-------------------------|--|-----------------------------|------------------------|--------------------------------------|
| | | NHL-M Historic lime mortar for laying cut stones* | NHL-F Historic lime grout mortar* | NHL-P Historic lime plaster* | NHL-FP Lime fine coat finish plaster* | NHL-NS Natural stone slurry* | NHLV-g filling grout mortar* | FL-M Historic lime mortar for laying cut stones* | FL-F Historic lime grout mortar* | FL-V Historic pre-mix mortar* | FL-P Historic lime plaster* | FLP-L Historic lime plaster with light aggregates* | FLV-g Filling grout mortar | TKM 5 Trass lime mortar | TWM Trass mortar for laying cut stones | TKF Trass lime grout mortar | TKP Trass lime plaster | TKP-L Trass lime lightweight plaster |
| MASONRY MORTAR | | ● | | | | | | ● | | | | | | ● | ● | | | |
| GROUT MORTAR | | | ● | | | | | | ● | | | | | | ● | ● | | |
| PLASTERS | | | | ● | | | | | | ● | ● | ● | | | | | ● | ● |
| RENOVATION PLASTERS | | | | | | | | | | | | | | | | | | |
| SPECIAL PLASTERS | | | | | | | | | | | | | | | | | | |
| FINE PLASTERS / SLURRIES | ● | | | | ● | ● | | | | | | | | | | | | |
| FILLING MORTAR / ANCHOR MORTAR | | | | | | | ● | | | | | | ● | | | | | |



* With lime, without cement

GYP SUM

Gypsum as binder within masonry mortar and plaster is being used regionally and requires particular consideration. Gypsum compatible as well as gypsum bound mortars can be used in order to renovate these objects.

| | lime | lime cement | trass cement | for gypsum based masonry | gypsum mortar |
|--|--|-------------|--------------|--------------------------|---------------|
| | TK-FRP Moist-regulating plaster | | | | |
| | TKFP Trass lime fine coat finish plaster | | | | |
| | TSM Trass smoothing and modelling plaster | | | | |
| | TK-NS Trass natural stone slurry | | | | |
| | TKV-p Trass lime filling grout mortar | | | | |
| | UNI-FS Universal Fibre Filler Plaster | | | | |
| | RSP Quick renovating plaster | | | | |
| | SHF Renovating felted plaster | | | | |
| | TSP-VS Pre-spray renovation mortar | | | | |
| | TSP-PG Trass Sanier-Pore Base Plaster | | | | |
| | TSP Trass renovation plaster | | | | |
| | TSP-E Trass single layer renovation plaster | | | | |
| | TZVM Trass-cement multi-purpose mortar | | | | |
| | TWM-s Special trass mortar for laying cut stones | | | | |
| | TZP Trass cement plaster | | | | |
| | TZV-p Trass cement filling grout mortar | | | | |
| | HSTV-p Trass pressure grout mortar HS | | | | |
| | NAM-s Anchor mortar for natural stone quick | | | | |
| | NAM-l Anchor mortar for natural stone slow | | | | |
| | HSM Restoration mortar | | | | |
| | HSF Grout mortar with high pore content | | | | |
| | HSP Base plaster | | | | |
| | HSP-L Base plaster with high pore content | | | | |
| | HSV-p Pressure grout mortar | | | | |
| | V5 Gypsum mortar | | | | |
| | V15 Gypsum mortar | | | | |

● = available

5.1 Mortar for laying cut stones

NHL-M Historic lime mortar for laying cut stones



- mortar for laying cut stones with NHL natural hydraulic lime as binder
- for interior and exterior masonry
- adjusted water retention properties
- binder basis: NHL lime
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- project-specific colours and grains on request

• **Standard masonry mortar M2,5 (90d) acc. EN 998-2**
NM II according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| NHL-M / 0 – 2 mm | ■ | ▲ | ▲ | ■ | - 55508 3 | Bag | 25 kg | 48 | 440 442 010 | 1 sack | |
| NHL-M / 0 – 2 mm | ▲ | ▲ | ▲ | ▲ | - 57360 5 | Silo | | | 440 442 010 | 1 t | |
| NHL-M / 0 – 4 mm | ■ | ▲ | ■ | ■ | - 55509 0 | Bag | 25 kg | 48 | 440 442 010 | 1 sack | |
| NHL-M / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 57362 9 | Silo | | | 440 442 010 | 1 t | |

FL-M Historic lime mortar for laying cut stones



- Cast stone mortar with FL formulated lime as a binder
- for interior and exterior masonry
- adjusted water retention properties
- binder basis: FL lime
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- project-specific colours and grains on request

• **Standard masonry mortar M2,5 (90d) acc. EN 998-2**
NM II according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| FL-M / 0 – 2 mm | ■ | ▲ | ▲ | ■ | - 55551 9 | Bag | 25 kg | 48 | 440 442 020 | 1 sack | |
| FL-M / 0 – 4 mm | ▲ | ▲ | ▲ | ■ | - 55552 6 | Bag | 25 kg | 48 | 440 442 020 | 1 sack | |

FL-D Historic roofing mortar



- fibre-reinforced historic roofing mortar with FL B 3.5 for roof tiles/tiles, ridge tiles, hip tiles and eaves tiles
- as sealing mortar for roof tiles
- excellent stability
- frost-resistant
- grain: 0 – 1,2 mm
- Consumption: approx. 15 - 20 kg per running metre when laying the ridge (guide value).

• **Standard masonry mortar M2. 5 in accordance with DIN EN 998-2**

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| FL-D coloured | ▲ | ▲ | ▲ | ▲ | 55591 5 | Bag | 25 kg | 48 | 440 442 210 | 1 sack | |
| FL-D.G grey | ▲ | ▲ | ▲ | ▲ | 55593 9 | Bag | 25 kg | 48 | 440 442 210 | 1 sack | |

5.1 Mortar for laying cut stones

TWM 2.5 Trass mortar for laying cut stones



- trass mortar for laying cut stones
- for masonry made of natural stone and bricks
- alkali content < 0.1%
- binder basis: Trass lime

- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- project-specific colours and grains on request
- also available as a highly sulphate-resistant version on request

• **Standard masonry mortar M2,5 acc. EN 998-2**
NM II according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------------------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TWM 2.5 / 0 – 2 mm | ▲ | ▲ | ▲ | ■ | - 57113 7 | Bag | 30 kg | 42 | 440 441 050 | 1 sack | |
| TWM 2.5 / 0 – 4 mm | ▲ | ▲ | ▲ | ■ | - 57176 2 | Bag | 30 kg | 42 | 440 441 050 | 1 sack | |
| TWM 2.5 / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 57177 9 | Silo | | | 440 441 050 | 1 t | |
| TWM/M 2.5 wall crown / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 58981 1 | Bag | 30 kg | 42 | 440 441 050 | 1 sack | |

TWM 5 Trass mortar for laying cut stones



- trass mortar for laying cut stones
- for masonry made of natural stone and bricks
- alkali content < 0.1%
- binder basis: Trass lime

- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- project-specific colours and grains on request
- also available as a highly sulphate-resistant version on request

• **Standard masonry mortar M5 acc. EN 998-2**
NM IIa according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------------------------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TWM 5 / 0 – 2 mm | ▲ | ▲ | ▲ | ■ | - 89961 3 | Bag | 30 kg | 42 | 440 441 060 | 1 sack | |
| TWM 5 / 0 – 2 mm | ▲ | ▲ | ▲ | ▲ | - 57070 3 | Silo | | | 440 441 060 | 1 t | |
| TWM 5 / 0 – 4 mm | ▲ | ▲ | ▲ | ■ | - 57174 8 | Bag | 30 kg | 42 | 440 441 060 | 1 sack | |
| TWM 5 / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 57064 2 | Silo | | | 440 441 060 | 1 t | |
| TWM/M 5 Wall crown / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 59031 2 | Bag | 30 kg | 42 | 440 441 060 | 1 sack | |
| TWM/D 5 Drainage aggregate / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 57495 4 | Bag | 30 kg | 42 | 440 441 060 | 1 sack | |

TWM-s 10 Special trass mortar for laying cut stones



- water-repelling trass mortar for laying cut stones
- for masonry work, grouting and laying natural stone
- ideal for wall copings and moist areas
- alkali content < 0.1%

- binder basis: Trass cement
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- project-specific colours and grains on request

• **Standard masonry mortar M10 acc. EN 998-2**
NM III according to DIN 20000-412

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| TWM-s 10 / 0 – 2 mm | ▲ | ▲ | ▲ | ■ | - 57099 4 | Bag | 30 kg | 42 | 440 441 070 | 1 sack | |
| TWM-s 10 / 0 – 4 mm | ■ | ■ | ■ | ■ | - 57073 4 | Bag | 30 kg | 42 | 440 441 070 | 1 sack | |
| TWM-s 10 SR / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 56469 6 | Bag | 30 kg | 42 | 440 441 070 | 1 sack | |

5.1 Mortar for laying cut stones



HSM 2,5 Restoration mortar

- masonry mortar for laying cut stones containing gypsum
- for producing masonry, facing, plaster and grout mortar
- for interior and external use
- with high sulphate-resistance
- binder basis: according to patent PA 3437680
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- project-specific colours and grains on request

• **Standard masonry mortar M2,5 acc. EN 998-2**
NM II according to DIN 20000-412

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| HSM 2.5 / 0 – 2 mm | ▲ ▲ ▲ ■ | - 55512 0 | Bag | 25 kg | 48 | 440 442 030 | 1 sack | |
| HSM 2.5 / 0 – 4 mm | ▲ ▲ ▲ ■ | - 55513 7 | Bag | 25 kg | 48 | 440 442 030 | 1 sack | |



HSM 5 Restoration mortar

- masonry mortar for laying cut stones containing gypsum
- for producing masonry, facing, plaster and grout mortar
- for interior and external use
- with high sulphate-resistance
- binder basis: according to patent PA 3437680
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- project-specific colours and grains on request

• **Standard masonry mortar M5 acc. EN 998-2**
NM IIa according to DIN 20000-412

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| HSM 5 / 0 – 2 mm | ■ ■ ▲ ■ | - 55514 4 | Bag | 25 kg | 48 | 440 442 040 | 1 sack | |
| HSM 5 / 0 – 4 mm | ▲ ■ ▲ ■ | - 55515 1 | Bag | 25 kg | 48 | 440 442 040 | 1 sack | |



HSM 10 Restoration mortar

- masonry mortar for laying cut stones containing gypsum
- for producing masonry, facing, plaster and grout mortar
- for interior and external use
- with high sulphate-resistance
- binder basis: according to patent PA 3437680
- grain: 0 – 4 mm, 0 – 8 mm
- consumption: depending on application
- project-specific colours and grains on request

• **Standard masonry mortar M10 acc. EN 998-2**
NM III according to DIN 20000-412

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| HSM 10 / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 55516 8 | Bag | 25 kg | 48 | 440 442 050 | 1 sack | |
| HSM 10 / 0 – 8 mm | ▲ ▲ ▲ ▲ | - 55517 5 | Bag | 25 kg | 48 | 440 442 050 | 1 sack | |

5.2 Grout mortar

NHL-F Historic lime grout mortar



- grout mortar with NHL natural hydraulic lime as binder
- for interior and exterior grouting
- colours: light beige, coloured
- binder basis: NHL lime

- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- Other grain sizes, cartridge formulations, formulations for dry spraying, coloured and machine-compatible versions on request. Please contact your responsible customer service.

• Standard masonry mortar M2,5 (90d) acc. EN 998-2
NM II according to DIN 20000-412

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| NHL-F / 0 – 2 mm | ▲ ▲ ▲ ■ | - 55518 2 | Bag | 25 kg | 48 | 440 443 010 | 1 sack | |
| NHL-F / 0 – 4 mm | ▲ ▲ ▲ ■ | - 55519 9 | Bag | 25 kg | 48 | 440 443 010 | 1 sack | |
| NHL-F/M Masonry crown / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 56041 4 | Bag | 25 kg | 48 | 440 443 010 | 1 sack | |
| NHL-F/T dry spraying / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 55589 2 | Bag | 25 kg | 48 | 440 443 010 | 1 sack | |

FL-F Historic lime grout mortar



- Grout with FL formulated lime as binder
- for interior and exterior grouting
- colours: light beige, coloured
- binder basis: FL lime

- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- Other grain sizes, cartridge formulations, formulations for dry spraying, coloured and machine-compatible versions on request. Please contact your responsible customer service.

• Standard masonry mortar M2,5 (90d) acc. EN 998-2
NM II according to DIN 20000-412

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| FL-F / 0 – 2 mm | ▲ ▲ ▲ ■ | - 55550 2 | Bag | 25 kg | 48 | 440 443 020 | 1 sack | |
| FL-F / 0 – 4 mm | ▲ ▲ ▲ ■ | - 55549 6 | Bag | 25 kg | 48 | 440 443 020 | 1 sack | |
| FL-F/M Masonry crown / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 56046 3 | Bag | 25 kg | 48 | 440 443 020 | 1 sack | |
| FL-F/D Drainage Grain / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 55582 3 | Bag | 25 kg | 48 | 440 443 020 | 1 sack | |
| FL-F/T Dry spraying / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 56049 0 | Bag | 25 kg | 48 | 440 443 020 | 1 sack | |

TKF 2.5 Trass lime grout mortar



- grout mortar for all types of masonry
- for retrospective grouting of all types of masonry, particularly suitable for natural stone masonry
- for renovation and restoration of visible masonry
- for interior and exterior grouting
- colours: light grey, coloured

- binder basis: Trass lime
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- Other grain sizes, cartridge formulations, formulations for dry spraying, coloured as well as high-sulphate-resistant and machine-compatible versions on request. Please contact your local customer service.

• Standard masonry mortar M2,5 acc. EN 998-2
NM II according to DIN 20000-412

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TKF 2.5 / 0 – 2 mm | ■ ▲ ▲ ■ | - 58541 7 | Bag | 30 kg | 42 | 440 443 030 | 1 sack | |
| TKF 2.5 / 0 – 4 mm | ▲ ▲ ▲ ■ | - 58951 4 | Bag | 30 kg | 42 | 440 443 030 | 1 sack | |
| TKF/M 2.5 Wall crown / 0 – 2 mm | ▲ ▲ ▲ ▲ | - 58594 3 | Bag | 30 kg | 42 | 440 443 030 | 1 sack | |
| TKF/M 2.5 Wall crown / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 59021 3 | Bag | 30 kg | 42 | 440 443 030 | 1 sack | |
| TKF/D 2.5 Drainage grain size / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 59020 6 | Bag | 30 kg | 42 | 440 443 030 | 1 sack | |

5.2 Grout mortar



TKF 5 Trass lime grout mortar

- grout mortar for all types of masonry
- for retrospective grouting of all types of masonry, particularly suitable for natural stone masonry
- for renovation and restoration of visible masonry
- for interior and exterior grouting
- colours: grey, coloured
- binder basis: Trass lime
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: depending on application
- Other grain sizes, cartridge formulations, formulations for dry spraying, coloured as well as high-sulphate-resistant and machine-compatible versions on request. Please contact your local customer service.

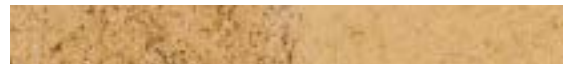
• Standard masonry mortar M5 acc. EN 998-2
NM IIa according to DIN 20000-412

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------------------------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TKF 5 / 0 – 2 mm | ■ ■ ■ ■ | - 57195 3 | Bag | 30 kg | 42 | 440 443 040 | 1 sack | |
| TKF 5 / 0 – 4 mm | ▲ ▲ ▲ ■ | - 57101 4 | Bag | 30 kg | 42 | 440 443 040 | 1 sack | |
| TKF/M 5 Wall crown / 0 – 2 mm | ▲ ▲ ▲ ■ | - 58953 8 | Bag | 30 kg | 42 | 440 443 040 | 1 sack | |
| TKF/M 5 Wall crown / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 58952 1 | Bag | 30 kg | 42 | 440 443 040 | 1 sack | |
| TKF/D 5 Drainage aggregate / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 57102 1 | Bag | 30 kg | 42 | 440 443 040 | 1 sack | |

Shades TKF Trass Lime Grout



TKF 110*



TKF 120*



TKF 130*



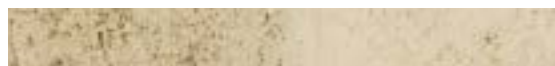
TKF 140*



TKF 150*



TKF 160*



TKF 170*



TKF 180*



TKF standard grey*



TKF standard white*

* Printing colour deviations possible

5.2 Grout mortar

HSF Grout mortar with high pore content



- grout mortar for masonry containing gypsum
- for interior and exterior grouting
- with increased pore content
- with high sulphate-resistance

- colour: beige grey, coloured
- binder basis: according to patent PA 3437680
- grain: 0 – 2,5 mm
- consumption: depending on application

• **Standard masonry mortar M5 acc. EN 998-2**
NM IIa according to DIN 20000-412

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| HSF | ▲ ▲ ▲ ■ | - 55522 9 | Bag | 25 kg | 48 | 440 443 050 | 1 sack | |

V5 Gypsum mortar



- gypsum mortar for masonry containing gypsum
- for interior and exterior masonry work and grouting
- mortar development in the context of project 18320 of the German Federal Foundation for the Environment (DBU)
- sulphate-resistant

- colour: light grey
- binder basis: Gypsum
- grain: 0 – 4 mm
- consumption: depending on application

• **Compressive strength according to EN 13279-2 ≥ 5 N/mm²**

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| V5 | ▲ ▲ ▲ ▲ | - 57598 2 | Bag | 30 kg | 35 | 440 443 060 | 1 sack | |

V15 Gypsum mortar



- gypsum mortar for masonry containing gypsum
- for interior and exterior masonry work and grouting
- mortar development in the context of project 18320 of the German Federal Foundation for the Environment (DBU)
- sulphate-resistant

- colour: light grey
- binder basis: Gypsum
- grain: 0 – 4 mm
- consumption: depending on application

• **Compressive strength according to EN 13279-2 ≥ 10 N/mm²**

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| V15 | ▲ ▲ ▲ ▲ | - 56106 0 | Bag | 30 kg | 35 | 440 443 070 | 1 sack | |

5.3 Base plasters

FL-V Historic pre-mix mortar



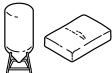
- Cement-free pre-spray mortar based on FL lime
- pre-spray plaster / spray coat for tubag FL plasters
- for the production of a semi (reticulated) or fully covering spray coat
- for interior and external use
- ideally suited for listed buildings and for ecological construction

- structure
- recipe with original tubag trass
- binder basis: FL lime
- grain: 0 – 4 mm
- Consumption: approx. 4 kg/m² for cross-linking application

• standard plastering mortar GP CS II acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| FL-V / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 56996 7 | Bag | 25 kg | 48 | 450 451 090 | 1 sack | |

NHL-P Historic lime plaster



- lime plaster with NHL natural hydraulic lime as binder
- ideal for restoration of historic monuments to match the historic originals
- for interior and external use
- NHL-P – non-water repellent, NHL-P wa – water inhibiting

- NHL-P wa – water-inhibiting
- binder basis: NHL lime
- grain: 0 – 1 mm, 0 – 2 mm, 0 – 4 mm, 0 – 8 mm
- consumption: approx. 23 kg/m² per 15 mm plaster thickness
- water absorption can be adjusted specifically to the project

• standard plastering mortar GP CS I acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| NHL-P / 0 – 1 mm | ▲ ▲ ▲ ■ | - 55524 3 | Bag | 25 kg | 48 | 450 454 010 | 1 sack | |
| NHL-P / 0 – 1 mm | ▲ ▲ ▲ ▲ | - 57391 9 | Silo | | | 450 454 010 | 1 t | |
| NHL-P / 0 – 2 mm | ▲ ▲ ▲ ■ | - 55525 0 | Bag | 25 kg | 48 | 450 454 010 | 1 sack | |
| NHL-P / 0 – 2 mm | ▲ ▲ ▲ ▲ | - 57392 6 | Silo | | | 450 454 010 | 1 t | |
| NHL-P / 0 – 4 mm | ▲ ▲ ▲ ■ | - 55526 7 | Bag | 25 kg | 48 | 450 454 010 | 1 sack | |
| NHL-P / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 57393 3 | Silo | | | 450 454 010 | 1 t | |
| NHL-P / 0 – 8 mm | ▲ ▲ ▲ ■ | - 55527 4 | Bag | 25 kg | 48 | 450 454 010 | 1 sack | |
| NHL-P / 0 – 8 mm | ▲ ▲ ▲ ▲ | - 57395 7 | Silo | | | 450 454 010 | 1 t | |
| NHL-P wa / 0 – 1 mm | ▲ ▲ ▲ ■ | - 55528 1 | Bag | 25 kg | 48 | 450 454 010 | 1 sack | |
| NHL-P wa / 0 – 1 mm | ▲ ▲ ▲ ▲ | - 57397 1 | Silo | | | 450 454 010 | 1 t | |
| NHL-P wa / 0 – 2 mm | ▲ ▲ ▲ ■ | - 55529 8 | Bag | 25 kg | 48 | 450 454 010 | 1 sack | |
| NHL-P wa / 0 – 2 mm | ▲ ▲ ▲ ▲ | - 57399 5 | Silo | | | 450 454 010 | 1 t | |
| NHL-P wa / 0 – 4 mm | ▲ ▲ ▲ ■ | - 55530 4 | Bag | 25 kg | 48 | 450 454 010 | 1 sack | |
| NHL-P wa / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 57442 8 | Silo | | | 450 454 010 | 1 t | |
| NHL-P wa / 0 – 8 mm | ▲ ▲ ▲ ▲ | - 55531 1 | Bag | 25 kg | 48 | 450 454 010 | 1 sack | |
| NHL-P wa / 0 – 8 mm | ▲ ▲ ▲ ▲ | - 57444 2 | Silo | | | 450 454 010 | 1 t | |

FL-P Historic lime plaster



- Cement-free base and restoration plaster
- ideal for restoration of historic monuments
- for interior and external use
- recipe with original tubag trass

- binder basis: FL lime
- grain: 0 – 2 mm, 0 – 4 mm
- consumption: approx. 23 kg/m² per 15 mm plaster thickness

• standard plastering mortar GP CS I acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-----------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| FL-P | ▲ ▲ ▲ ▲ | - 57002 4 | Bag | 25 kg | 48 | 450 451 014 | 1 sack | |
| FL-P / 0 – 2 mm | ▲ ▲ ▲ ▲ | - 57133 5 | Bag | 25 kg | 48 | 450 451 014 | 1 sack | |
| FL-P / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 57134 2 | Bag | 25 kg | 48 | 450 451 014 | 1 sack | |
| FL-P | ▲ ▲ ▲ ▲ | - 57017 8 | Silo | | | 450 451 014 | 1 t | |

5.3 Base plasters

FLP-L Historic lime plaster with light aggregates



- cement-free base and restoration plaster, high yield and easy to apply
- ideal for restoration of historic monuments
- for interior and external use
- recipe with original tubag trass
- binder basis: FL lime
- grain: 0 – 2 mm
- consumption: approx. 15 kg/m² per 15 mm plaster thickness

• standard plastering mortar GP CS I acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| FLP-L | ▲ ▲ ▲ ■ | - 56984 4 | Bag | 30 kg | 30 | 450 451 010 | 1 sack | |
| FLP-L | ▲ ▲ ▲ ▲ | - 56985 1 | Silo | | | 450 451 010 | 1 t | |

TKP-L Trass lime lightweight plaster



- base and restoration plaster, high yield and easy to apply
- ideal for restoration of historic monuments
- for interior and external use
- lightweight plaster type I
- recipe with original tubag trass
- binder basis: Trass lime
- grain: 0 – 2 mm
- consumption: approx. 18 kg/m² per 15 mm plaster thickness

• Lightweight plaster mortar LW CS II acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TKP-L | ▲ ■ ▲ ▲ | - 47626 5 | Bag | 30 kg | 30 | 450 451 030 | 1 sack | |
| TKP-L | ▲ ▲ ▲ ▲ | - 56981 3 | Silo | | | 450 451 030 | 1 t | |

TKP Trass lime plaster



- base and restoration plaster
- ideal for restoration of historic monuments
- for interior and external use
- recipe with original tubag trass
- colour: light grey
- binder basis: Trass lime
- grain: 0 – 1 mm, 0 – 4 mm
- consumption: approx. 22 kg/m² per 15 mm plaster thickness

• standard plastering mortar GP CS II acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TKP fine | ■ ■ ■ ■ | - 89348 2 | Bag | 25 kg | 42 | 450 451 020 | 1 sack | |
| TKP fine | ▲ ▲ ▲ ▲ | - 89351 2 | Silo | | | 450 451 020 | 1 t | |
| TKP coarse | ■ ■ ■ ■ | - 89347 5 | Bag | 25 kg | 42 | 450 451 020 | 1 sack | |
| TKP coarse | ▲ ▲ ▲ ▲ | - 57374 2 | Silo | | | 450 451 020 | 1 t | |

TZP Trass cement plaster



- base and restoration plaster for heavy duty surfaces and moist areas
- ideal for restoration of historic monuments
- as plinth plaster for masonry and concrete
- in cellar exterior wall area
- for interior and external use
- recipe with original tubag trass
- binder basis: Trass cement
- grain: 0 – 1 mm, 0 – 4 mm
- consumption: approx. 22 kg/m² per 15 mm plaster thickness

• standard plastering mortar GP CS IV acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TZP fine | ▲ ▲ ■ ■ | - 57413 8 | Bag | 25 kg | 42 | 450 451 041 | 1 sack | |
| TZP fine | ▲ ▲ ▲ ▲ | - 57377 3 | Silo | | | 450 451 041 | 1 t | |
| TZP coarse | ▲ ▲ ▲ ■ | - 89356 7 | Bag | 25 kg | 42 | 450 451 041 | 1 sack | |
| TZP coarse | ▲ ▲ ▲ ▲ | - 89357 4 | Silo | | | 450 451 041 | 1 t | |

5.3 Base plasters

HSP Base plaster



- base plaster for masonry containing gypsum
- ideal for restoration of historic monuments
- for interior and external use
- with high sulphate-resistance

- binder basis: according to patent PA 3437680
- grain: 0 – 4 mm
- consumption: approx. 21.5 kg/m² per 15 mm plaster thickness

• standard plastering mortar GP CS II acc. EN 998-1

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| HSP | ▲ | ▲ | ▲ | ▲ | - 56055 1 | Bag | 30 kg | 30 | 450 453 010 | 1 sack | |

HSP-L Base plaster with high pore content



- base plaster with high pore content for masonry containing gypsum
- ideal for restoration of historic monuments
- for interior and external use
- with increased pore content

- with high sulphate-resistance
- binder basis: according to patent PA 3437680
- grain: 0 – 2,5 mm
- consumption: approx. 19.5 kg/m² per 15 mm plaster thickness

• standard plastering mortar GP CS II acc. EN 998-1

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| HSP-L | ▲ | ▲ | ▲ | ▲ | - 89719 0 | Bag | 30 kg | 30 | 450 453 020 | 1 sack | |

5.4 Renovation and functional plasters

TSP-VS Pre-spray renovation mortar



- mineral WTA pre-spray renovation mortar
- for producing a semi-covering (cross-linking) rough cast within the tubag renovation plaster-system
- pre-spray plaster/rough cast for tubag renovation and levelling plasters
- for interior and external use

- WTA certified according to data sheet 2 – 9 Renovation plasters
- with high sulphate-resistance
- colour: grey
- grain: 0 – 4 mm
- Consumption: approx. 4 kg/m² for cross-linking application

• standard plastering mortar GP CS IV acc. EN 998-1

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TSP-VS | ▲ | ■ | ■ | ■ | - 89771 8 | Bag | 25 kg | 48 | 450 453 110 | 1 sack | |

TSP-PG Trass renovation pore base plaster



- WTA Trass renovation pore base plaster
- for renovation of salt-saturated and moist masonry
- for levelling very uneven plaster substrate
- for interior and external use
- WTA certified according to data sheet 2 – 9 Renovation plasters

- recipe with original tubag trass
- with high sulphate-resistance
- pore hydrophobic
- colour: grey
- grain: 0 – 1,2 mm
- consumption: approx. 5 kg/m² per 5 mm plaster thickness

• Renovation plastering mortar R CS II acc. EN 998-1

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TSP-PG | ▲ | ■ | ▲ | ■ | - 89757 2 | Bag | 25 kg | 40 | 450 453 120 | 1 sack | |

5.4 Renovation and functional plasters

TSP Trass renovation plaster



- WTA trass lime renovation plaster for moist masonry with salt content
- as renovation plaster on rough cast and/or base plaster with high pore content
- for interior and external use
- WTA certified according to data sheet 2 – 9 Renovation

- plasters
- recipe with original tubag trass
- with high sulphate-resistance
- colour: grey
- grain: 0 – 1,2 mm
- consumption: approx. 13 kg/m² per 10 mm plaster thickness

• Renovation plastering mortar R CS II acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TSP | ▲ ■ ▲ ■ | - 57418 3 | Bag | 25 kg | 40 | 450 453 130 | 1 sack | |

TSP-E Trass single layer renovation plaster



- WTA trass lime renovation plaster for moist masonry with salt content
- as renovation plaster on rough cast and/or base plaster with high pore content
- for interior and external use
- WTA certified according to data sheet 2 – 9 Renovation

- plasters
- recipe with original tubag trass
- with high sulphate-resistance
- colour: natural white
- grain: 0 – 1,2 mm
- consumption: approx. 11 kg/m² per 10 mm plaster thickness

• Renovation plastering mortar R CS II acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TSP-E | ▲ ■ ▲ ▲ | - 57419 | Bag | 25 kg | 40 | 450 453 140 | 1 sack | |

TK-FRP Moist-regulating plaster



- high-porosity trass lime base plaster
- ideal for restoration of historic monuments
- for interior and external use
- high capillary water absorption
- colour: natural white

- binder basis: Trass lime
- grain: 0 – 2,5 mm
- consumption: approx. 10 kg/m² per 10 mm plaster thickness
- coloured versions on request

• Renovation plastering mortar R CS II acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TK-FRP natural white | ▲ ▲ ▲ ■ | - 55766 7 | Bag | 30 kg | 36 | 450 453 070 | 1 sack | |

5.5 Fine plasters

NHL-FP Lime fine coat finish plaster



- fine plaster for wall and ceiling surfaces
- for producing smooth or skimmed wall and ceiling surfaces
- for interior and external use
- heritage recipe

- binder basis: NHL lime
- grain: 0 – 0,6 mm
- consumption: approx. 4.5 kg/m² per 3 mm plaster thickness
- coloured versions on request

• Finishing Plaster Mortar CR CS I acc. EN 998-1

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| NHL-FP | ▲ ▲ ▲ ■ | - 56956 1 | Bag | 30 kg | 35 | 450 454 020 | 1 sack | |

Delivery regions

Availability

→ N = NORTH

→ ■ = available

E = EAST

S = SOUTH

▲ = on request

W = WEST

55

5.5 Fine plasters

TKFP Trass lime fine coat finish plaster



- fine plaster for wall and ceiling surfaces
- ideal for restoration of historic monuments to match the historic originals
- for producing smooth or skimmed wall and ceiling surfaces
- for interior and external use
- recipe with original tubag trass
- heritage recipe
- binder basis: Trass lime
- grain: 0 – 0,6 mm
- consumption: approx. 4.0 kg/m² at 3 mm plaster thickness

Finishing Plaster Mortar CR CS II acc. EN 998-1

| Article | Availability N E S W | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TKFP | ▲ | ■ | ▲ | ■ | - 89340 6 | Bag | 25 kg | 48 | 450 454 025 | 1 sack | |

TSM Trass smoothing and modelling plaster



- finish coat for external and interior use
- thin-layer smoothing plaster for mesh fillers
- for individual surface design (felted, textured, washed out)
- finish plaster on mineral subsurfaces, for indoor and outdoor applications
- uniform and attractive felt finish
- grain: 0 – 1 mm, 0 – 2 mm
- consumption: approx. 6 kg/m² per 5 mm plaster thickness
- container with technical machine attachment available on request
- use coarsely as a mesh insert e.g. AKURIT GG reinforcement mesh

Finishing Plaster Mortar CR CS II acc. EN 998-1

| Article | Availability N E S W | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|----------|-------------------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TSM 1 mm | ▲ | ■ | ■ | ■ | - 24167 2 | Bag | 25 kg | 42 | 545 451 070 | 1 sack | |
| TSM 2 mm | ▲ | ▲ | ▲ | ▲ | - 24168 9 | Bag | 25 kg | 42 | 545 451 070 | 1 sack | |

5.6 Natural stone slurries

NHL-NS Natural stone slurry



- NHL lime-based natural stone slurry
- coating for permanent protection of natural stone and brick
- colour: light beige
- binder basis: NHL lime
- grain: 0 – 1,2 mm, 0 – 2,5 mm
- coloured versions on request

| Article | Availability N E S W | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------------------|-------------------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| NHL-NS / 0 – 1,2 mm | ▲ | ▲ | ▲ | ■ | - 56690 4 | Bag | 30 kg | 30 | 450 452 030 | 1 sack | |
| NHL-NS / 0 – 2,5 mm | ▲ | ▲ | ▲ | ■ | - 56215 9 | Bag | 30 kg | 30 | 450 452 030 | 1 sack | |

TK-NS Trass natural stone slurry



- trass lime-based natural stone slurry
- coating for permanent protection of natural stone and brick
- colour: light beige
- binder basis: Trass lime
- grain: 0 – 1,2 mm, 0 – 2,5 mm
- coloured versions on request

| Article | Availability N E S W | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|--------------------|-------------------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TK-NS / 0 – 1,2 mm | ▲ | ▲ | ▲ | ■ | - 55590 8 | Bag | 25 kg | 48 | 450 452 040 | 1 sack | |
| TK-NS / 0 – 2,5 mm | ▲ | ▲ | ▲ | ■ | - 55532 8 | Bag | 25 kg | 48 | 450 452 040 | 1 sack | |

5.7 Anchor, backfill and grout mortar

NHLV-g Filling grout mortar



- mortar for masonry filling
- for restoring and repairing historic masonry
- compressive strength: approx. 2 N/mm² after 70 days, medium water demand
- binder basis: NHL lime

- grain: 0 mm, 0 – 1 mm, 0 – 2 mm
- yield: approx. 950 litre wet mortar per tonne depending on consistency and grain structure
- loose products, grains and versions on request.

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| NHLV-g / 0 mm | ▲ ▲ ▲ ▲ | - 56385 9 | Bag | 25 kg | 30 | 440 444 010 | 1 sack | |
| NHLV-g / 0 – 1 mm | ▲ ▲ ▲ ■ | - 56672 0 | Bag | 25 kg | 30 | 440 444 010 | 1 sack | |
| NHLV-g / 0 – 2 mm | ▲ ▲ ▲ ▲ | - 56610 2 | Bag | 25 kg | 30 | 440 444 010 | 1 sack | |

FLV-g Filling grout mortar



- mortar for masonry filling
- for restoring and repairing historic masonry
- compressive strength: approx. 5 N/mm² after 28 days, medium water demand
- binder basis: FL lime

- grain: 0 mm, 0 – 1 mm, 0 – 2 mm
- Yield: approx. 750 litres of wet mortar per tonne depending on consistency and grain structure
- loose products, grains and versions on request.

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| FLV-g / 0 mm | ▲ ▲ ▲ ▲ | - 57040 6 | Bag | 25 kg | 30 | 440 444 015 | 1 sack | |
| FLV-g / 0 – 1 mm | ▲ ▲ ▲ ▲ | - 57042 0 | Bag | 25 kg | 30 | 440 444 015 | 1 sack | |
| FLV-g / 0 – 2 mm | ▲ ▲ ▲ ▲ | - 57043 7 | Bag | 25 kg | 30 | 440 444 015 | 1 sack | |

TKV-p Trass lime filling grout mortar



- mortar for masonry filling and pressure grout under light pressure
- for restoring and repairing historic masonry
- enhanced with additives
- compressive strength: approx. 5 N/mm² after 28 days, medium water demand

- binder basis: Trass lime
- grain: 0 mm, 0 – 1 mm, 0 – 2 mm
- yield: approx. 650 litre wet mortar per tonne depending on consistency and grain structure
- loose products, grains and versions on request.

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TKV-p / 0 mm | ▲ ▲ ▲ ■ | - 89772 5 | Bag | 20 kg | 48 | 440 444 020 | 1 sack | |
| TKV-p / 0 – 1 mm | ▲ ▲ ▲ ■ | - 56351 4 | Bag | 28 kg | 30 | 440 444 020 | 1 sack | |
| TKV-p / 0 – 2 mm | ▲ ▲ ▲ ■ | - 56352 1 | Bag | 29 kg | 30 | 440 444 020 | 1 sack | |

TZV-p Trass cement filling grout mortar



- mortar for masonry filling and pressure grout under light pressure
- for restoring and repairing historic masonry
- enhanced with additives
- compressive strength: approx. 10 N/mm² after 28 days, medium water demand

- binder basis: Trass cement
- grain: 0 mm, 0 – 1 mm, 0 – 2 mm, 0 – 4 mm
- yield: approx. 650 litre wet mortar per tonne depending on consistency and grain structure
- loose products, grains and versions on request.

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| TZV-p / 0 – 1 mm | ▲ ▲ ▲ ▲ | - 56361 3 | Bag | 37 kg | 30 | 440 444 030 | 1 sack | |
| TZV-p / 0 – 2 mm | ▲ ▲ ▲ ▲ | - 56362 0 | Bag | 38 kg | 30 | 440 444 030 | 1 sack | |
| TZV-p / 0 – 4 mm | ▲ ▲ ▲ ▲ | - 57454 1 | Bag | 40 kg | 30 | 440 444 030 | 1 sack | |

5.7 Anchor, backfill and grout mortar

HSV-p Pressure grout mortar



- mortar for masonry filling and pressure grout under light pressure
- enhanced with additives
- for gypsum-containing masonry
- sulphate-resistant
- compressive strength: approx. 5 N/mm² after 28 days,

- medium water demand
- binder basis: according to patent PA 3437680
- grain: 0 mm, 0 – 1 mm, 0 – 2 mm, 0 – 4 mm
- yield: approx. 650 – 850 litre wet mortar per tonne depending on consistency and grain structure
- loose products, grains and versions on request.

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| HSV-p / 0 mm | ▲ | ▲ | ▲ | ■ | - 89773 2 | Bag | 25 kg | 48 | 440 444 040 | 1 sack | |
| HSV-p / 0 – 1 mm | ▲ | ▲ | ▲ | ■ | - 56311 8 | Bag | 38 kg | 30 | 440 444 040 | 1 sack | |
| HSV-p / 0 – 2 mm | ▲ | ▲ | ▲ | ▲ | - 56312 5 | Bag | 38 kg | 30 | 440 444 040 | 1 sack | |
| HSV-p / 0 – 4 mm | ▲ | ▲ | ▲ | ▲ | - 56314 9 | Bag | 37 kg | 30 | 440 444 040 | 1 sack | |

HSTV-p Trass pressure grout mortar HS



- mortar for masonry filling and pressure grout under light pressure
- enhanced with additives
- with high sulphate-resistance
- compressive strength: approx. 20 N/mm² after 28 days, medium water demand

- binder basis: Trass cement
- grain: 0 mm, 0 – 1 mm, 0 – 2 mm
- yield: approx. 650 – 850 litre wet mortar per tonne depending on consistency and grain structure
- loose products, grains and versions on request.

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|-------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| HSTV-p / 0 mm | ▲ | ▲ | ▲ | ▲ | - 57472 5 | Bag | 25 kg | 48 | 440 444 050 | 1 sack | |
| HSTV-p / 0 – 1 mm | ▲ | ▲ | ▲ | ■ | - 56301 9 | Bag | 31 kg | 30 | 440 444 050 | 1 sack | |
| HSTV-p / 0 – 2 mm | ▲ | ▲ | ▲ | ■ | - 56302 6 | Bag | 38 kg | 30 | 440 444 050 | 1 sack | |

NAM-s Anchor mortar for natural stone quick



- anchor mortar with quick strength development
- for mortaring anchors in sustainable components
- for indoor and outdoor applications
- strength after approx. 10 minutes

- compressive strength: ≥ 20 N/mm²
- grain: 0 – 4 mm
- consumption: depending on borehole cross section and borehole depth
- loose products, grains and versions on request.

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| NAM-s | ▲ | ■ | ▲ | ■ | - 56822 9 | Bag | 25 kg | 48 | 440 445 010 | 1 sack | |

NAM-I Anchor mortar for natural stone slow



- anchor mortar with slow strength development
- for mortaring anchors in sustainable components
- for indoor and outdoor applications
- strength after approx. 30 minutes

- compressive strength: ≥ 20 N/mm²
- grain: 0 – 4 mm
- consumption: depending on borehole cross section and borehole depth
- loose products, grains and versions on request.

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| NAM-I | ▲ | ▲ | ▲ | ■ | - 56821 2 | Bag | 25 kg | 48 | 440 445 020 | 1 sack | |

5.8 Stone supplementary mortar / blasting material

**SEM** Stone repair compound

- Stone supplement mortar for supplementing and restoring natural and sandstone (formerly P250 stone replacement compound)
- for producing imitation sandstone (sculpture, ornaments etc.)
- compressive strength: $\geq 10 \text{ N/mm}^2$
- colours: white, grey, custom colours on request
- grain: 0 – 0,5 mm
- consumption: depending on application

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| SEM | ▲ ■ ▲ ▲ | - 92720 0 | Bucket | | 48 | 440 446 015 | 1 Bucket | |

Shades SEM Stone Substitute



Colour shade white PW 2010*



Colour shade PW 20071*



Colour shade grey PW 2019*



Colour shade PW 20081*



Colour shade PW 2032*



Colour shade PW 20084*



Colour shade PW 20221*



Colour shade PW 2004*



Colour shade PW 2002*

Other special colours available on request.

* Printing colour deviations possible

**New!****SEM-K** Stone replacement material adhesive

- Fast-setting natural stone adhesive for bonding natural stone and especially for the insertion of facings
- for setting replacement pieces made of natural stone, cast stone and ceramic in thin and medium beds
- for attaching crossings and stone additions
- Suitable for use as a contact layer, thin-bed and medium-bed mortar, setting and fixing mortar
- In wall and floor areas
- for interior and external use
- Color is adapted to the natural stone
- with early, rapid crystalline water binding
- recipe with original tubag trass
- can be walked on and grouted after approx. 3 hours
- grain: 0 – 0,5 mm
- Consumption:
 - approx. 2.4 kg/m² with 6 mm toothing
 - approx. 3.1 kg/m² with 8 mm toothing
 - approx. 3.5 kg/m² for 10 mm toothing
 - approx. 1 – 2 kg/m² as contact layer

• C2 FT S1 acc. EN 12004

| Article | Availability N E S W | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------------|-------------------------|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| SEM-K colored | ▲ ▲ ▲ ▲ | - 59077 0 | Bucket | 12.5 kg | 48 | 440 446 015 | 1 Bucket | |

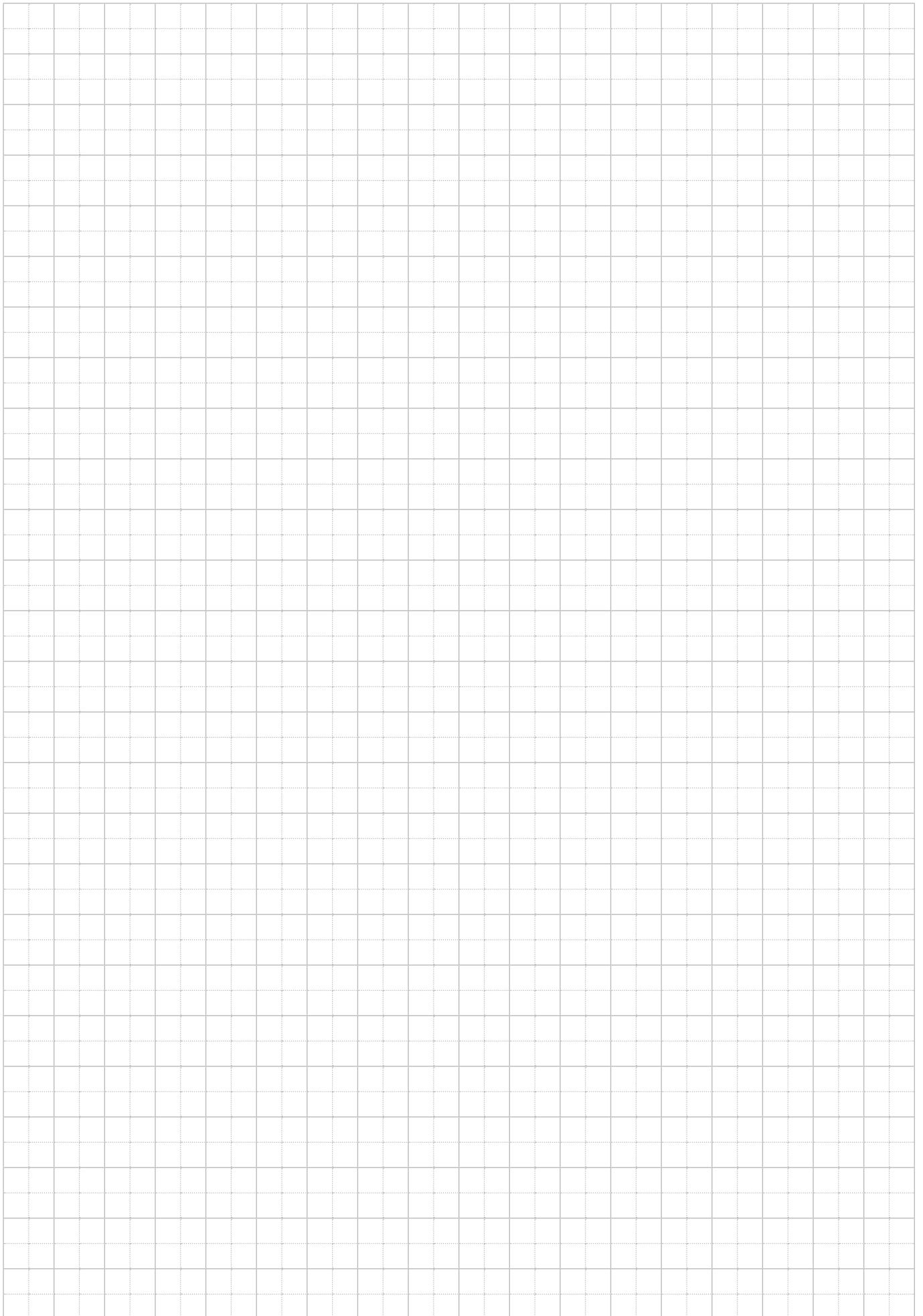
5.8 Stone supplementary mortar / blasting material

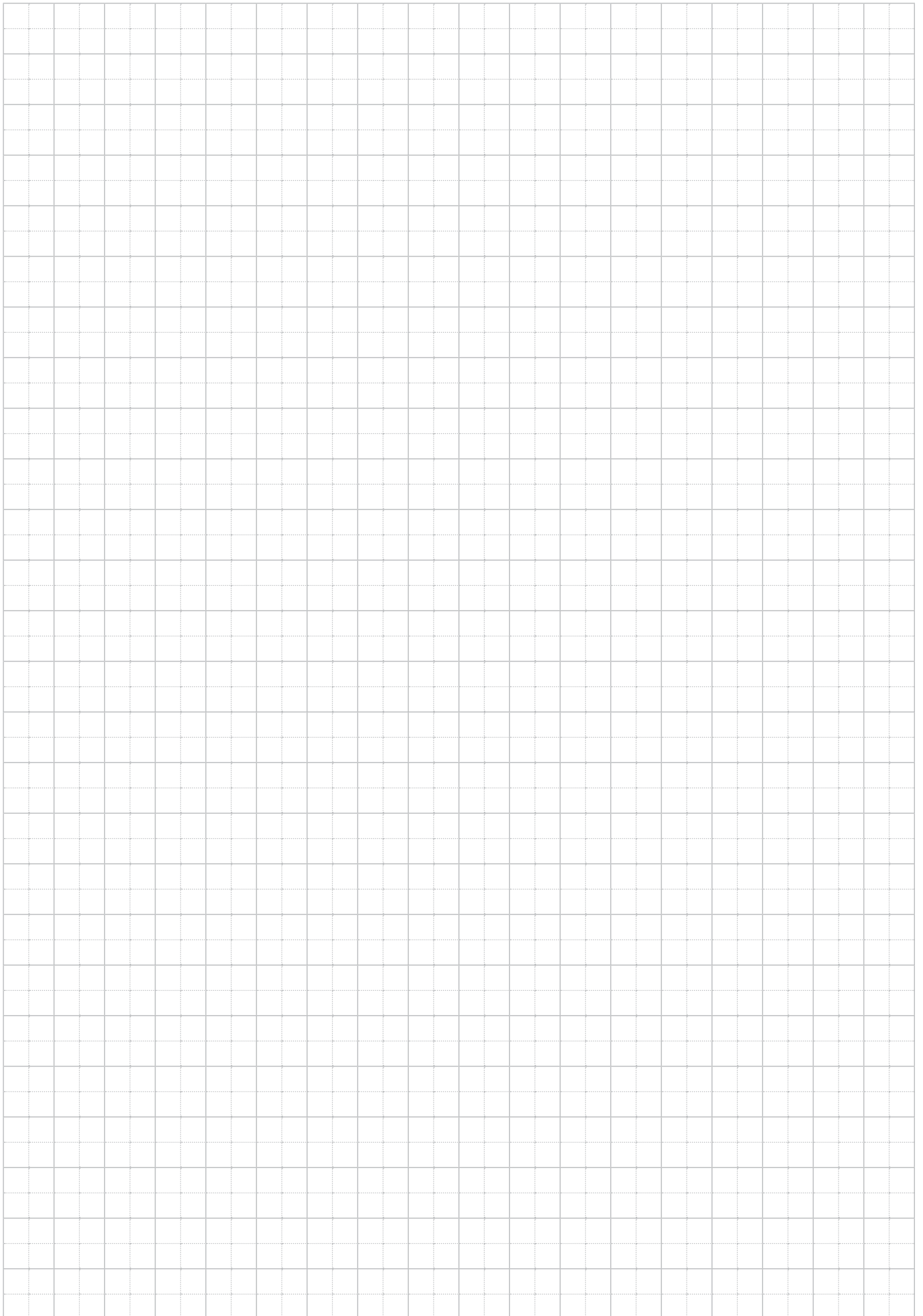


STM Blasting abrasive

- fractured, artificial mineral
- for blasting and treating surfaces of any kind
- for removing tender pieces by using rays
- for concrete repair, restauration, painting and varnishing
- grain: 0,1 – 0,8 mm, 0,25 – 1,4 mm, 1,0 – 2,0 mm
- consumption: depending on application

| Article | Availability | | | | GTIN/EAN 4004637 | Container | Container- size | Container/ Pallet | Material group | Price unit | Price in € |
|---------------------|--------------|---|---|---|---------------------|-----------|--------------------|----------------------|-------------------|---------------|------------|
| | N | E | S | W | | | | | | | |
| STM / 0,1 – 0,8 mm | ▲ | ■ | ▲ | ■ | - 09602 9 | Bag | 40 kg | 25 | 440 446 020 | 1 sack | |
| STM / 0,25 – 1,4 mm | ■ | ■ | ■ | ■ | - 09603 6 | Bag | 40 kg | 25 | 440 446 020 | 1 sack | |
| STM / 1,0 – 2,0 mm | ▲ | ▲ | ▲ | ▲ | - 09604 3 | Bag | 40 kg | 25 | 440 446 020 | 1 sack | |

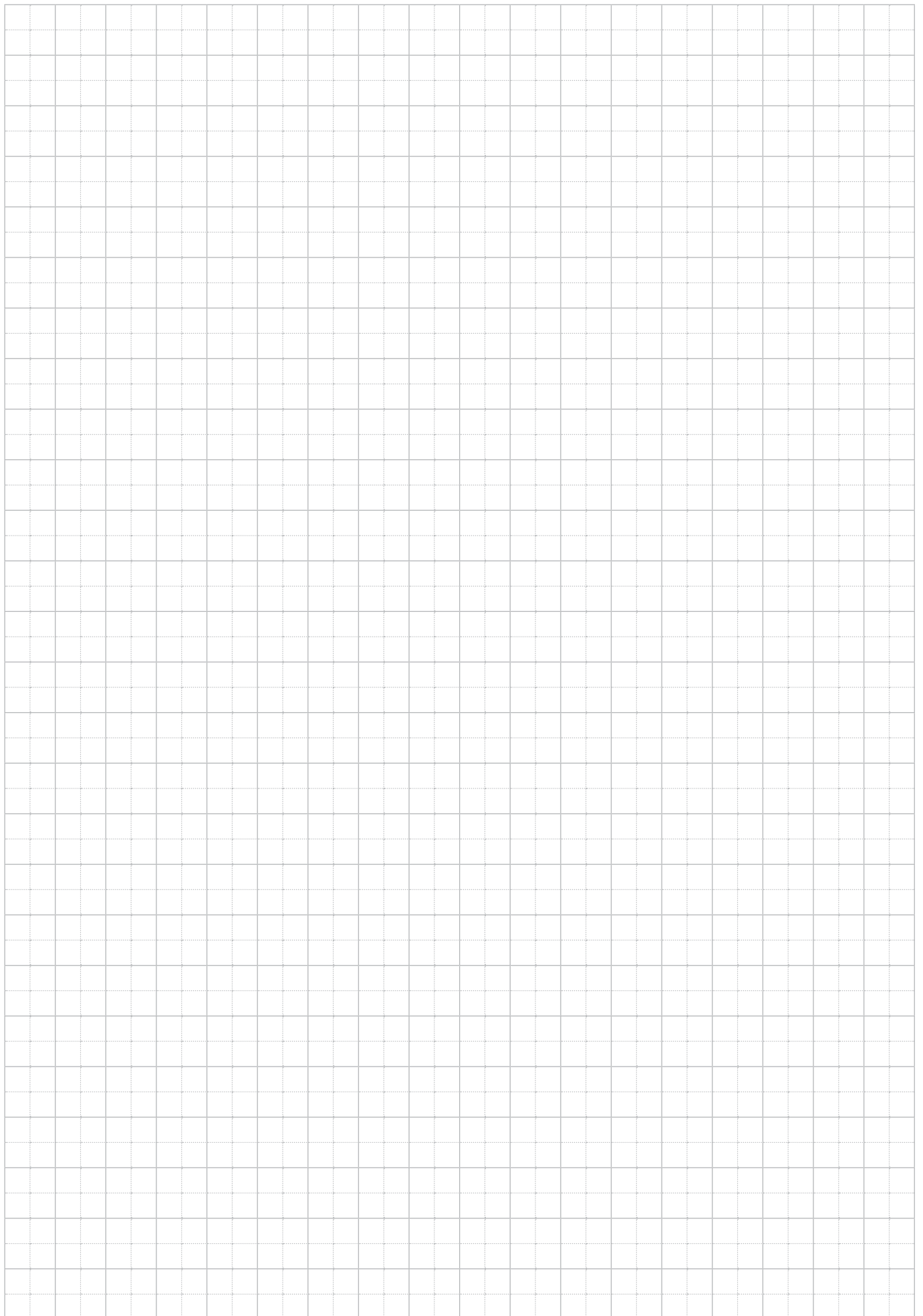




ALPHABETICAL INDEX

| | | | | |
|---|----|--|--|----|
| B | | HSP-L Base plaster with high pore content | | 54 |
| BFF Plex Contraction joint tape | 39 | HSTV-p Trass pressure grout mortar HS | | 58 |
| BFM-flex Contraction joint compound flex | 38 | HSV-p Pressure grout mortar | | 58 |
| BFM-G 2K Pourable contraction joint compound | 38 | N | | |
| BFP-S 2K Primer for BFM-G 2K | 38 | NAM-I Anchor mortar for natural stone slow | | 58 |
| BHG VarioRapid Construction resin/primer | 18 | NAM-s Anchor mortar for natural stone quick | | 58 |
| D | | NHL-F Historic lime grout mortar | | 49 |
| DDM Thin-layer drainage mortar | 25 | NHL-FP Lime fine coat finish plaster | | 55 |
| DTG VarioRapid Dispersion primer | 18 | NHL-M Historic lime mortar for laying cut stones | | 46 |
| E | | NHL-NS Natural stone slurry | | 56 |
| ESP Sweeping sand | 31 | NHL-P Historic lime plaster | | 52 |
| F | | NHLV-g Filling grout mortar | | 57 |
| FHI Grout aid and impregnation | 31 | NVL 300 Natural stone bedding mortar | | 14 |
| FL-B Formulated lime binder | 7 | P | | |
| FL-D Historic roofing mortar | 46 | PFF Paving grout | | 27 |
| FL-F Historic lime grout mortar | 49 | PFF ProLine Paving grout | | 27 |
| FL-M Historic lime mortar for laying cut stones | 46 | PFH light Paving grout | | 36 |
| FL-P Historic lime plaster | 52 | PFH Paving grout | | 36 |
| FL-V Historic pre-mix mortar | 52 | PFH rapid Paving grout | | 37 |
| FLP-L Historic lime plaster with light aggregates | 53 | PFH-B Paving grout | | 36 |
| FLV-g Filling grout mortar | 57 | PFL2 Paving grout | | 29 |
| FTD Flexo trass emulsion | 31 | PFM2 Paving grout | | 29 |
| G | | PFN Paving grout | | 30 |
| GaLaKreativ PUR-Binder | 31 | PFV30 Paving grout | | 37 |
| H | | PFV45 Paving grout | | 37 |
| HSF Grout mortar with high pore content | 51 | R | | |
| HSM 10 Restoration mortar | 48 | Rbas ABS-K Spacer with edge protection | | 41 |
| HSM 2.5 Restoration mortar | 48 | Rbas system Roller bedding peel-off rail | | 41 |
| HSM 5 Restoration mortar | 48 | | | |
| HSP Base plaster | 54 | | | |

| | | | |
|--|----|---|----|
| S | | | |
| SBM-HS Sewer and manhole mortar HS | 40 | TNH-flex Trass bonding slurry for natural stone | 26 |
| SEM Stone repair compound | 59 | TNM-flex grey Medium-bed trass mortar for natural stone | 15 |
| SEM-K Stone replacement material adhesive | 59 | TNM-flex Medium-bed trass mortar for natural stone | 15 |
| Spray lance | 41 | TNM-rapid FX Medium-bed trass mortar for natural stone | 15 |
| STM Blasting abrasive | 60 | TNM-Vario FX Medium-bed trass mortar for natural stone | 15 |
| SVG rapid Manhole grouting mortar | 40 | TPM-D 4 mm rapid Trass paving drainage mortar | 34 |
| T | | TPM-D 4 mm Trass paving drainage mortar | 34 |
| TBS Dry fill material | 25 | TPM-D 8 mm rapid Trass paving drainage mortar | 35 |
| TCE Trass compound for single grain mortar | 25 | TPM-D 8 mm Trass paving drainage mortar | 35 |
| TDM plus Trass drainage mortar | 24 | TSM Trass smoothing and modelling plaster | 56 |
| TDM Trass drainage mortar | 24 | TSP Trass renovation plaster | 55 |
| TFL FineLine | 28 | TSP-E Trass single layer renovation plaster | 55 |
| TFP Trass grout mortar for polygonal slabs | 17 | TSP-PG Trass Sanier-Pore Base Plaster | 54 |
| TGM Trass coarse grain mortar | 25 | TSP-VS Pre-spray renovation mortar | 54 |
| TK Trass lime HL 5 | 7 | tubag PFK Paving grout | 28 |
| TK-FRP Moist-regulating plaster | 55 | TWM 2.5 Trass mortar for laying cut stones | 47 |
| TK-NS Trass natural stone slurry | 56 | TWM 5 Trass mortar for laying cut stones | 47 |
| TKF 2.5 Trass lime grout mortar | 49 | TWM-s 10 Special trass mortar for laying cut stones | 47 |
| TKF 5 Trass lime grout mortar | 50 | TZ-o Trass cement original 40 L | 6 |
| TKFP Trass lime fine coat finish plaster | 56 | TZ-s Special trass cement | 6 |
| TKM 5 Trass lime mortar | 8 | TZB Trass-cement concrete | 9 |
| TKN Trass natural stone thin bed adhesive | 16 | TZM 10 Trass cement mortar | 8 |
| TKN VarioRapid Trass adhesive natural stone variable | 16 | TZM 20 Trass cement mortar | 8 |
| TKP Trass lime plaster | 53 | TZP Trass cement plaster | 53 |
| TKP-L Trass lime lightweight plaster | 53 | TZV-p Trass cement filling grout mortar | 57 |
| TKV-p Trass lime filling grout mortar | 57 | TZVM Multipurpose trass cement mortar | 9 |
| TM Trass flour | 7 | V | |
| TN Thick-bed trass mortar for natural stone | 14 | V15 Gypsum mortar | 51 |
| TN-s Special thick-bed trass mortar for natural stone | 14 | V5 Gypsum mortar | 51 |
| TNF VarioRapid TNF VarioRapid Trass grout mortar for natural stone | 17 | W | |
| TNH rapid Trass bonding slurry | 35 | WSZ Water-stop | 40 |



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