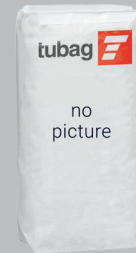


HSV-p

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



APPLICATIONS

- for producing pressure grout and injection mortar for crack and cavity injection
- particularly suitable for rehabilitating masonry on historic buildings with masonry containing gypsum

PROPERTIES

- mineral
- good workability
- modified and stabilised
- colour: grey

COMPOSITION

- Binder according to patent PA 3437680, special binder developed according to the basic research with the Institute of Rock Metallurgy at RWTH Aachen University
- trass in accordance with DIN 51043
- graded stone aggregates in accordance with DIN 13139
- Admixtures with general building authority approval
- quality-monitored
- low-chromate

SUBSTRATE

Pretreatment

- The substrate is to be pre-wet before the grouting work depending on the absorbency of the masonry using the packers laid out for this purpose.
- Pre-wetting should be done thoroughly and in good time, days beforehand if need be.
- This ensures that not too much mixing water is extracted from the introduced mortar, which would lead to an incomplete filling and to an inadequate bonding strength and reduced mortar strength.

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PROCESSING

Temperature	<ul style="list-style-type: none">■ Do not process, allow to cure or harden in air, material or substrate temperatures of less than +5°C and over +30°C, in direct sunlight, and/or in strong wind.
Mixing / Preparation / Processing	<ul style="list-style-type: none">■ Mix mortar homogeneously and without lumps using suitable machine technology, e.g. compulsory or continuous mixer.■ Mixers with a high speed are to be used preferably.■ The required consistency is set by adding clean tap water.■ consistency: depending on application, free-flowing or injectable■ Water requirement for grain size 0 mm: approx. 40 % by weight of water for free-flowing consistency, approx. 60 % by weight for injectable consistency■ Water requirement for grain sizes 0 - 1 mm, 0 - 2 mm and 0 - 4 mm: approx. 25 % by weight of water for free-flowing consistency, approx. 30 % by weight for injectable consistency■ Do not mix with other products and/or other substances.
Processing	<ul style="list-style-type: none">■ Use machine technology (e.g. worm or piston pumps) suitable for pressure grouting.■ Pressure grouting should be done via masonry packers fitted in the wall.■ The injection pressure is to be controlled depending on the masonry strength.■ For safety reasons and to increase the effectiveness of the grouting work, a pressure gauge and bypass should be used to avoid overpressure.
Processing / Working time	<ul style="list-style-type: none">■ approx. 60 minutes■ The stated times apply for a temperature of +20°C and relative humidity of 65%.
Drying / Hardening	<ul style="list-style-type: none">■ Protect the fresh mortar from drying out too quickly and from unfavourable weather conditions such as frost, draughts, direct sunlight and direct exposure to driving rain if necessary by hanging with foil.
Cleaning the tools	<ul style="list-style-type: none">■ Clean all tools and equipment with water immediately after use.
Notes	<ul style="list-style-type: none">■ In some circumstances, project-specific mortars with special properties regarding its mixing stability, flow behaviour and swelling behaviour must be used. Such pressure grout mortars optimised with special admixtures are produced by us on a project-specific basis.

PACKAGING

- 25 kg/sack
- 38 kg/sack
- 40 kg/bag

STORAGE

- Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

- yield: approx. 650 – 850 litre wet mortar per tonne depending on consistency and grain structure

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TECHNICAL DATA

Binder base	Binder according to patent no. PA 3437680
Compressive strength	approx. 5.0 N/mm ²
Grain	0 mm, 0 – 1 mm, 0 – 2 mm, 0 – 4 mm
Processing temperature	+5°C to +30°C
Water requirement	depending on consistency approx. 25 – 60 sts. –% Water per 25 kg/sack, depending on consistency approx. 25 – 60 sts. –% Water per 38 kg/sack, depending on consistency approx. 25 – 60 sts. –% Water per 40 kg/bag
Processing time	approx. 60 minutes

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety	<ul style="list-style-type: none">■ This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.■ Further information can be found in the safety data sheet at www.tubag.de.
GISCODE	<ul style="list-style-type: none">■ ZP1 (products containing cement, low-chromate)
Disposal	<ul style="list-style-type: none">■ Dispose of the material in accordance with the official regulations.■ Completely empty and recycle the packaging.■ Dispose of hardened product in accordance with the local regulations. Do not allow to enter the sewer system. Dispose of the hardened product in the same way as concrete waste and slurries. Waste code according to the Ordinance on the European Waste Catalogue depending on the origin: 17 01 01 (concrete) or 10 13 14 (concreteste and concrete slurries).

GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.