

TSP-VS

Pre-spray renovation mortar

Mineral WTA pre-spray renovation mortar

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

- WTA certified according to data sheet 2 – 9 Renovation plasters
- with high sulphate-resistance
- colour: grey



APPLICATIONS

- 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
- to improve the bond between the plaster primer and subsequent plaster layer
- for interior and external use

PROPERTIES

- mineral
- does not affect vapour diffusion permeability
- good adhesion on mineral substrates
- suitable for machine application

COMPOSITION

- Cement with high sulphate-resistance according to DIN EN 197-1
- graded stone aggregates in accordance with DIN 13139
- additives for improving bonding to the subsurface

SUBSTRATE

Suitable substrates	<ul style="list-style-type: none">■ All types of masonry■ primarily historic masonry■ Concrete
Properties/tests	<ul style="list-style-type: none">■ The substrate must be dry, load-bearing, clean, dust-free and free of adhesion-reducing residues, release agents, efflorescence and sintered coatings.■ For assessing the plaster primer, VOB/C DIN 18350, Section 3, DIN EN 13914-1/13914-2 as well as the plaster standard DIN 18550-1/18550-2 should be observed.
Pretreatment	<ul style="list-style-type: none">■ Completely remove non-load-bearing plaster, coatings or salt efflorescence.■ Old plaster must be removed at least 80 to 100 cm above the visible or adjacent damaged zone up to the masonry.■ Crumbly masonry joints are to be scraped out approx. 2 - 3 cm deep.■ Damaged stones must be replaced.■ The plaster primer is to be pre-wetted in good time, possibly a few days beforehand, also several times if required. When pre-wetting, the material-specific absorbency of masonry and mortar is to be taken into account.

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PROCESSING

Temperature	<ul style="list-style-type: none">■ Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.
Mixing / Preparation / Processing	<ul style="list-style-type: none">■ Suitable for processing by hand, or with conventional plastering machines.■ When using plastering machines, no additional equipment (e.g. additional mixers or air-entrained worm casing) needs to be used.■ When machine-processing: Adjust the amount of water accordingly to obtain a workable consistency.■ If the work is interrupted for longer periods, then clean the plastering machine and mortar hoses.■ When mixing manually, first place the quantity of water specified in the technical data in a clean container and then sprinkle in dry mortar. Use clean tap water.■ use a suitable agitator to mix the material until smooth and free of lumps. Leave to rest for a moment and then mix again, adding more water, if required, to achieve the right consistency for applying.■ Do not mix with other products and/or other substances.
Processing	<ul style="list-style-type: none">■ Apply rough cast with rough surface, semi-covering (cross-linking) up to 5 mm layer thickness.
Processing / Working time	<ul style="list-style-type: none">■ Approx. 2 hours at 20°C and 65% relative air humidity■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.
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.■ Rest time depending on temperature and weathering at least 1 day.
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">■ When using according to WTA data sheet 2-9-04, the specifications in the data sheet are to be observed.■ Construction rubble close to the renovation site must be removed every day to prevent salt remigration.

PACKAGING

- 25 kg/sack

STORAGE

- Store dry and as per instructions.

QUANTITY REQUIRED / YIELD

- Consumption: approx. 4 kg/m² for cross-linking application
- yield: app. 17.5 l fresh mortar per 25 kg/sack

TECHNICAL DATA

Product type	standard plastering mortar GP
Category	CS IV
Compressive strength	≥ 6 N/mm ²
Grain	0 – 4 mm
Water requirement	approx. 6.0 l per 25 kg/sack
Set mortar bulk density	approx. 1.7 kg/dm ³
Fire behaviour	A1 (non-flammable) in accordance with EN 13501
Adhesive tensile strength	≥ 0.08 N/mm ²
Capillary water absorption	W _c 1 (in accordance with EN 998-1)
Water vapour permeability μ	15/35 (table value EN 1745)
Thermal conductivity λ _{10,dry,mat.} for P=50%	≤ 0.82 W/(mK)
Thermal conductivity λ _{10,dry,mat.} for P=90%	≤ 0,89 W/(mK)

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.■ Follow further instructions in the safety data sheet.
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 (concretewaste 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. Since natural raw materials are used, the values and properties described may vary somewhat. WTA is the German scientific-technical working group for building preservation and monument conservation (Wissenschaftlich-Technische Arbeitsgemeinschaft für Bauwerkserhaltung und Denkmalpflege e. V.). 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.

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