

Z 01.8

Sprayed mortar

Dry sprayed mortar according to DIN 18551 / DIN EN 14487

- low rebound
- for pneumatic delivery in dry spraying process

no picture

APPLICATIONS

- for use in building construction, mining, tunnel construction and special civil engineering
- for slope and trench stabilisation as well as sealing rock masses

PROPERTIES

- exposure classes:
C20/25: XC1 – XC3
C25/30: XC1 – XC4, XA1
C30/37: XC1 – XC4, XD1, XS1, XM1, XA1
C35/45: XC1 – XC4, XD1 – XD3, XS1 – XS3, XM1 – XM2, XA1
- moisture classes according to DIN 1045-2: W0, WF, WA
- can be used in a single layer in thickness of approx. 15 - 40 mm
- good adhesion
- chloride-free
- fire class A1 according to DIN EN 13501-1 (non-flammable)
- resistant to frost and thawing salts according to CDF test (exposure class XF1 - XF3 on request)
- for exposure classes > XA1 available as highly sulfate-resistant (SR cement) XA2 and XA3 (XA3 requires additional protection of the concrete, possibly a special report for a special solution)
- also available as accelerated spray mortar (can be applied in a single layer in a layer thickness of approx. 15 - 100 mm)
- also available as a highly sulphate-resistant product variant (SR cement)

COMPOSITION

- high-quality binders according to DIN EN 197-1
- quartzitic aggregates (round grain) according to DIN EN 13139
- concrete admixture according to DIN EN 934-1 for Z01.8S
- low-chromate

SUBSTRATE

- | | |
|-------------------------|--|
| Properties/tests | ■ The substrate must be dry, stable, dust-free, frost-free, absorbent, level and sufficiently rough as well as free from efflorescence and release agents such as formwork oil and the like (according to DIN EN 18551). |
| Pretreatment | ■ before the application, the substrate must be pre-moistened with a matt dampness, adapted to the respective suction behavior. In the case of concrete repair work, an adhesive tensile strength of $\geq 1.5 \text{ N} / \text{mm}^2$ must be ensured by means of suitable pretreatment processes. |

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PROCESSING

- Applying**
- In order to achieve a monolithic, homogeneous shotcrete, the thickness should be at least 3 times the largest grain size. The material can be processed with conventional dry spray machines. A homogeneous spray pattern, low rebound and optimal concrete quality is achieved by even circular movements of the spray nozzle at a distance of approx. 1 m and an angle of 90 ° to the wall. After spraying, the fresh concrete must be treated in accordance with DIN 1045 and DIN EN 206-1. The product test must be carried out on site in accordance with DIN EN 14487/14488.

PACKAGING

- 40 kg/bag
- loose in silo

STORAGE

- Store dry and as per instructions.

QUANTITY REQUIRED / YIELD

- Solids requirement: approx: 2,0 t/m³

TECHNICAL DATA

Grain	0 – 4 mm
Fire behaviour	A1 (non-flammable) in accordance with EN 13501

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**
- 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**
- ZP1 (products containing cement, low-chromate)
- Disposal**
- 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).

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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.