BS 230

Concrete filler, fine

PCC cement-based concrete filler

- certified according to ZTV-ING (PCC and OS-C), DAfStb Rili-SIB and EN 1504-3
- coating thickness: 1.5-6 mm
- plastic-enhanced
- compressive strength:
  1d: ≥ 15 N/mm²
  7d: ≥ 35 N/mm²
  28d: ≥ 45 N/mm²

APPLICATIONS

- for repairs to façades, walls and ceiling surfaces
- for finishing concrete repair work
- as a scratch filler for levelling rough areas in the substrate
- for repairing pores, holes, cracks etc.
- as a substrate for surface protection systems
- for coating prefabricated elements, masonry and concrete surfaces
- for filling conduit and pipe slits
- for external and interior use

PROPERTIES

- good workability
- sprayable and brushable
- high stability
- excellent adhesion
- vapour diffusion permeable
- also easy to process on vertical surfaces and overhead

SUBSTRATE

General	■ precast concrete components, masonry and concrete surfaces ■ quick-mix BS 225 repair mortar, coarse
Pretreatment	■ Clean the substrate. Remove loose parts, dust, cement slurry, oil and grease. ■ An adequate tear strength of ≥ 1.3 N/mm² on average must be ensured. ■ Pre-wet concrete base/substrate until capillary saturation is reached.

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PROCESSING

Temperature	■ Do not use or allow to dry in air or substrate temperatures of less than +5°C, in the case of expected night time frost or at temperatures of over +35°C, in direct sunlight, and/or in strong wind.
Mixing / Preparation / Processing	■ Pour the amount of water specified in the technical data of approx. 2.5 l apart from a residual amount (approx. 0.5 l) into a clean and suitable mixing device (e.g. compulsory mixer). Add dry mortar and mix for approx. 3 minutes. Add the rest of the water and mix for another 2 minutes until homogeneous. Maximum amount of water: 3.0 l/25-kg bag.
Applying	■ Fill cavities and pores beforehand by brushing in or scratching. ■ Then apply wet-in-wet in one work stage and smooth after a reasonable waiting time.
Processing / Working time	■ at least 45 minutes ■ The stated times apply for a temperature of +20°C and relative humidity of 65%. ■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.
Drying / Hardening	■ The fresh mortar is to be post-treated over a period of at least 3 - 5 days and be protected from drying out too quickly, e.g. due to wind, draughts or sunshine.
Cleaning the tools	■ Clean all tools and equipment with water immediately after use.
Notes	■ Only use the system components tested in the concrete repair system that have been matched with each other: BS 215 corrosion protection and bonding bridge; BS 225 repair mortar, coarse; BS 230 concrete filler, fine; BS 310 concrete finish, white

PACKAGING

- 25 kg/sack

STORAGE

- Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

- consumption: approx. 2 kg/m²/mm
- yield: app. 13 l fresh mortar per 25 kg/sack

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TECHNICAL DATA

Grain size	0 – 0,5 mm
Water required	max. 3,75 l/Sack
Processing temperature	+5°C up to +35°C
Processing time	≥ 45 Minutes
Bulk density of fresh grout	ca. 2,1 kg/dm³
Layer thickness	1,5 – 6 mm
Compressive strength (after 1 day)	≥ 15 N/mm²
Compressive strength (after 7 days)	≥ 35 N/mm²
Compressive strength (after 28 days)	≥ 45 N/mm²
Flexural strength (after 1 day)	≥ 3 N/mm²
Flexural strength (after 7 days)	≥ 6 N/mm²
Flexural strength (after 28 days)	≥ 8 N/mm²
Tensile bond strength	≥ 1.5 MPa

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 the material in accordance with the official regulations. ■ 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. 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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