PROXAN®-RM 3

Repair mortar

- on epoxy resin basis
- approved by the German Institute for Structural Engineering (Deutsches Institut für Bautechnik, DIBt) for concrete restoration in facilities for the storage, filling and handling of water endangering liquids under Z-74.12-96

PROXAN®- RM 3 repair mortar is a pigmented, two-component, epoxy resin-based reaction resin mortar filled with special quartz sand.

Application

In conjunction with PROXAN®- HRM 3 bonding agent, PROXAN®- RM 3 repair mortar is preferentially used for concrete restoration in areas where chemicals can act, e.g. in facilities for storing, filling and handling water pollutants.

Processing

Preparing the substrate

The mineral substrate must be dry, stable, fine-grained and free of slurry, dust, loose elements, grease and oil. This is achieved by milling, ball peening, grinding or the use of a wire brush. Loose elements are then removed by blasting with air. Following pre-treatment, the adhesive strength of the concrete substrate should be at least 1.5 N/mm².
To better coordinate the repair system with the old concrete and to reduce tension between the repair system and the older concrete, the damaged areas must be removed to provide an angle of approx. 45° to connect to the old concrete surface. The governing depth can be found in the repair concept for the respective system (see approval section 4.1 (2)), taking into account the permissible installation geometry as specified in Annex 4, Table 2. Cutting out the damaged areas (e.g. using saw blades or high-pressure water jets) is not permitted.

Mixing repair mortar PROXAN®- RM 3

Base (A) and curing components (B) are packaged in a precisely metered mixing ratio. The two components are emptied in a compulsory mixer (drop or scrape out) and intensively mixed for 2 to 3 minutes.
If the mortar is mixed in the original packaging, an electric agitator is recommended for mixing, e.g. a slow running drill (approx. 300-400 rpm) with attached mixing paddles. When mixing, the side and bottom surfaces of the packaging must be well contacted several times. In order to completely rule out mixing deficiencies, the premixed material must be transferred to a clean container and mixed again. Then quickly use the mixed material.

Additional processing information

The appropriately pre-treated concrete surface or concrete rebars are primed using PROXAN®- HRM 3 bonding agent. The repair mortar is then applied to the freshly applied, uncured bonding agent and the surface is powdered with 0.1-0.3 mm sand while still fresh.
Processing may only take place if the temperature of the substrate is at least 3 K above the prevailing dew point temperature (see GTA for further information).

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Producer
Plant Greiz

Cleaning

Clean the equipment immediately using PROXAN®- PR-S or PROXAN®- PR 4 whenever work is interrupted. Do not allow cleaners and material components to get into the soil, sewage system or water!

Supply form

Bucket 8 kg, 20 kg

Technical Data

	PROXAN®- RM 3
Colour:	concrete grey
Bulk density:	≥ 2.1 g/cm³
Mixing ratio:	A : B = 1000 : 36
Processing temperature:	8 °C ≤ T ≤ 30 °C
Compressive strength (7 d):	110 N/mm²
Bending tensile strength (7 d):	33 N/mm²
Adhesion to the floor:	> 1,5 N/mm² (cracks in concrete)
Temperature stability:	- 20 °C ≤ T ≤ 60 °C
Dynamic Young's modulus (23 °C):	29200 N/mm²
Coefficient of thermal expansion:	26,6 x 10^{-6} 1/K
Adhesion shrinkage:	below 0,1 %

Storage

Shelf life one year. Keep packaging securely closed, dry and store between + 15 °C and + 20 °C if possible. Keep away from direct sunlight.

Disposal

Cured repair mortar can be disposed of as municipal waste (waste code number 20 03 01). The A component of the mortar should be disposed of as paint and varnish waste, the resins or hardeners as paint and varnish waste containing organic solvents.
More information can be found in the safety data sheet.

Occupational safety

The essential physical, safety-relevant, toxicological and ecological data can be found in the EC safety data sheet for work with chemical substances.
Observe the regulations of the Hazardous Substances Ordinance.

Attention

The above information corresponds to the current state of knowledge and our previous experience. It does not claim to be exhaustive. The changing circumstances during use, the different working conditions on the construction site and the large number of possible materials preclude any liability for this information. The best security against possible failures is achieved by performing your own tests for the intended application. Our application technology staff will be happy to advise you.

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