

# UNIMÖRTEL RAPID

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## MORTAR FOR REPAIRS IN DAMP AREAS

### Product Description:

Unimörtel Rapid is a sulfate-resistant, fast-setting, low-shrinkage cement-based repair mortar for damp areas. Unimörtel Rapid is a WW masonry, jointing, laying and repair mortar according to DIN 19573 and classified as a WW coating mortar DIN 19573 - B2 - XWW3.

### Fields of application:

It is suitable for making fillets, repairing defects in concrete parts or pipes, sewer manholes, sewage treatment plants, etc. in damp areas, as well as for working on defects in masonry before surface sealing. Structural steel is not attacked as the material is chloride-free. Unimörtel Rapid is impermeable to water.

### Features:

- " adheres well to mineral substrates
- " is highly sulfate resistant
- " is fast setting
- " does not attack mild steel (chloride-free)
- " cures with low shrinkage
- " is impermeable to water
- " is acid/alkali resistant up to pH 3.5 and up to 11.0; short-term 2.0 - 12.0
- " is chloride-free

### Processing instructions Substrates:

Concrete surfaces, screeds, cement plasters and all concrete repair mortars.

### Additional recommendation for young concrete surfaces:

Please observe an appropriate setting time. The accumulation of cement slurry, e.g. by cross brooming, must be avoided. Remove any curing and stripping agents.

### Substrate Preparation:

Cleaning of surfaces by cleaning methods such as: Shot blasting, water, sand or wet sand blasting, compressed air blasting with solid abrasives, milling, flame blasting etc.

Remove all loose parts and substances interfering with the bond, such as oils, greases, coating residues, cement sinter layers, down to the load-bearing substrate, so that a good bond is created. Recommended surface adhesion strength 1.5 N/mm<sup>2</sup>. Pre-treat oil contaminated surfaces with oil cleaner. The surfaces must be pre-wetted with capillary saturation, standing water and water films must be avoided at all costs.

### Adhesive slurry:

For better adhesion, a bonding slurry of Unimörtel Rapid and clean water can be prepared to a slurry consistency using a stirrer. Care must be taken to ensure that the powder component is first stirred with a little mixing water until the trapped air escapes. Only then is the mixture brought to a slurry consistency by further addition of water. This bonding slurry is applied to the substrate in full coverage with a tassel or brush to a thickness of approx. 1 - 3 mm.

**Processing:**

Unimörtel Rapid is mixed with clean water using a slow-running agitator. Here it is necessary to mix the powder component first with a little mixing water until the trapped air escapes. By further addition of water, the mixture is then brought to a stiff-plastic consistency. Using suitable tools, the mortar is now applied to the still adhesive bonding bridge, fresh in fresh, compacted and, if necessary, rubbed off. For greater filling depths, multiple layers must be used. The substrate and material temperature must not fall below 5°C during application and 24 hours thereafter. The rules for the application of cementitious building materials apply.

**Aftercare:**

Unimörtel Rapid mortars must be protected from rapid drying and from exposure to sunlight, rain and frost by suitable measures.

**Cleaning and disposal:**

The tools are cleaned with clean water. Delivery containers, material residues, also. Mixing vessels must be disposed of in accordance with official regulations. Disposal code in hardened condition: LAGA No. 314 09  
EWC No. 17 01 01

**Safety advice:**

Please wear protective clothing, safety goggles and protective gloves when working. Do not smoke, drink or eat during processing! Avoid strong dust formation. In case of skin contact and splashes in the eyes, rinse with clean water for at least 15 minutes. It is recommended to have an eye wash bottle with a sterile solution ready to rinse eyes thoroughly. Consult an ophthalmologist immediately afterwards. Please observe the safety data sheets and the regulations of the employers' liability insurance associations concerning the handling of cementitious materials.

## TECHNICAL DATA

Base	Cement
Color	gray
Bulk weight	1.50 kg/dm <sup>3</sup>
Mixing liquid	clean water
Mixing liquid requirements	approx. 0.15 l/kg
Processing time (temperature-dependent)	approx. 10 minutes
Classification according to DIN 19573 Ex- position classes	XWW3
Sulfate resistance	≤ 0.8 mm/m no visible crack formation
Classification according to DIN 19573 Ex- position classes	XWW3
Compressive strength	1 h 2.2 N/mm <sup>2</sup>   3 h 17.0 N/mm <sup>2</sup>   6 h 36.0 N/mm <sup>2</sup>   1d 41.0 N/mm <sup>2</sup>   28d 56.0 N/mm <sup>2</sup>
Flexural strength (with water)	28d 9.80 N/mm <sup>2</sup>
Adhesive tensile strength	≥ 2.0 MPa
Consumption	2.0 kg/l mortar
Delivery form	20 kg plastic bucket
Storage	12 months when stored properly in unopened original bucket, dry at +5°C - +30°C

### Status: 01/18

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