

Reparoxyd WG

(MC-DUR 3500 F)

Coarse, fast-curing polymer mortar



PRODUCT PROPERTIES

- Two component mortar based on special acrylates
- Very high early and final strength
- Highly wear resistant
- Impermeable to water, tested water impermeability under pressure acc. to EN 12390-8
- High resistancy to freeze-thaw with de-icing salts to CDF test (weathering 44.8 g/m², 28 cycles)
- Workable at temperatures below 0 °C
- Adjustable consistency due to variable mixing ratios
- Certified as a synthetic resin mortar acc. to EN 13813
- Certified as a surface protection product acc. to EN 1504-2

AREAS OF APPLICATION

- Repair mortar for coarser small scale areas up to 2 m²
- Filling of anchor holes and pillars
- Fastening of dislodged lifting bolts in precast concrete elements
- Repairs of concrete floors, stairs, damaged curbs, train platform edges
- Repairs of broken edges on precast concrete elements
- Filling of honey combs and cavities in concrete
- Reprofilling of crane rail trucks and machine foundations
- Production of acrylate mortars

APPLICATION ADVICE

Substrate preparation: The cementitious substrate must be at least 14 days old, dry and free of adhesion-reducing substances (e.g. oils, greases, release agents, loose particles, etc.). At sub-zero temperatures, the substrate must be thawed and dried. Please follow the instructions in the information sheet "General processing instructions for Reparoxyd acrylic mortar" and "Substrate preparation for reaction resin coatings".

Primer: The two-component Reparoxyd Primer is used as a primer. Reparoxyd WG is then applied fresh-in-fresh. Steel surfaces are primed with Colusal SP (see data sheet). After a waiting time of 12-24 hours, Reparoxyd WG is installed.

Mixing/installation: The two coordinated powder and liquid components of Reparoxyd WG must be mixed with a slow-speed agitator to form a homogeneous, lump-free mass. The consistency of Reparoxyd WG can be varied by adding the hardener component (liquid). As standard, 12.33 parts by weight of liquid component are added to 100 parts by weight of powder. The liquid component can be reduced to approx. 10 parts by weight (tamping mortar) or increased to approx. 16 parts by weight (casting mortar). For thicker layers, Reparoxyd WG can be filled with fire-dried quartz sand. If possible, the substrate should not be warmer than + 25 °C, otherwise the curing process will be abrupt. Reparoxyd WG can be applied with a trowel, trowel or jointing iron, depending on the intended use.

Special notes: The low boiling temperature of the reaction solution results in increased vapor pressure. Good ventilation must therefore be ensured in closed rooms! Also ensure that ignition sources are kept away from the workplace. The safety regulations for handling flammable goods must be observed. Consumption quantities, processing time, walkability and achievement of load-bearing capacity depend on temperature and object. See the information sheet "Processing reactive resins". With regard to batch color or consistency, please observe the other information in the section "Processing reactive resins". Chemical stress and exposure to light can lead to changes in color, which generally do not impair suitability for use. Chemically and mechanically stressed surfaces are subject to wear and tear due to use. Regular inspection and ongoing maintenance are recommended.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

| Characteristic | Unit | Value | Comments |
|--------------------------------|-------------------|------------------|--|
| Maximum grain size | mm | approx. 2 | |
| Density | g/cm ³ | approx. 2.2 | |
| Mixing ratio | p.b.w. | 100 : 12.33 | powder component : liquid |
| | | approx. 100 : 10 | trowelable consistency |
| | | approx. 100 : 16 | pouring consistency |
| With sand filler | mass fractions | 1 : 0.4 | Mixture : Sand (kiln-dried, 4-6 mm) |
| Working time | minutes | approx. 12 | at 20 °C |
| | | approx. 18 | at 0° C |
| | | approx. 30 | at -10° C |
| Application conditions | °C | ≥ -10 ≤ 25 | air and substrate temperatures |
| | | > 5 < 25 | material temperature |
| | % | ≤ 85 | rel. humidity |
| | K | > 3 | above dew point |
| Consumption | kg/m ² | 2.2 | per mm layer thickness |
| Flexural strength | N/mm ² | | |
| 2 h | | approx. 25 | |
| 24 h | | approx. 27 | Final value |
| Compressive strength | N/mm ² | | |
| 2 h | | approx. 55 | |
| 24 h | | approx. 61 | Final value |
| Resilient after (mechanically) | minutes | approx. 45 | at 20 °C |
| | | approx. 125 | at 0° C |
| | | approx. 300 | at -10° C |
| Layer thickness | mm | 40 | |
| Field size | m ² | 2 | |
| Water penetration depth | mm | approx. 10 | at 5 bar gauge pressure per EN 12390-8 |
| Thermal resistance | °C | < 50 | with surface heat dry and damp heat |

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

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|-------------------------------|--|
| Form | pulverous |
| System products | Reparoxyd Primer |
| Resistance to thermal cycling | yes |
| In-company production control | EN ISO 9001 |
| Equipment cleaning agent | MC-Reinigungsmittel U |
| Colour | grey |
| Delivery form | 16.85 kg tub; 1 pallet (24 x 16.85 kg tubs) |
| Self-monitoring | EN ISO 9001 |
| Storage | Can be stored in cool (below 20°C) and dry conditions for 6 months in original unopened packs. Protect from frost. |
| Packaging disposal | Make sure single-use containers are completely empty. |

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : RMA20

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2400022171]