

MC-DUR 1200 VK

Low-viscosity, highly fillable,
transparent epoxy resin

Product Properties

- Two-component, solvent-free, universal epoxy resin for use in industrial areas
- Highly fillable with mineral aggregates
- Excellent adhesion to mineral-based substrates
- High mechanical and chemical resistance when filled with aggregates

Areas of Application

- Primer for mineral-based substrates under reactive resin coatings
- Binder and as a bonding coat for scratch-, filling-, levelling coats and mortar
- For use in industrial areas or similar
- Injection resin for dry, static cracks between 1 - 2 mm width
- REACH-assessed exposure scenarios: periodical water-contact, long-term inhalation, application

Application

Substrate Preparation/ Mixing

See leaflets "General Application Advice": "MC-Industrial Floors - Substrate and Substrate Preparation" and "Reactive Resins".

Application as primer

Application of MC-DUR 1200 VK as a primer is carried out by means of rubber squeegees and/ or rollers. If it cannot be overcoated within 24 hours, the fresh primer is to be strewn with oven-dried quartz-sand (0.1 - 0.3 mm).

Application as scratch coat

Scratch- and levelling coats of MC-DUR 1200 VK and quartz-sand are applied with steel floats, rubber squeegees and/ or adjustable screeding tools onto the primer. The scratch- and levelling coat consists of MC-DUR 1200 VK and oven-dried quartz-sand (0.1 - 0.3 mm) mixed in a ratio of 1 : 1 p.b.w.. If it cannot be overcoated within 24 hours, the fresh scratch coat is to be strewn with oven-dried quartz-sand (0.1 - 0.3 mm).

Application as screed and mortar

The properties of MC-DUR 1200 VK depend on the filling ratio and grading curve of the aggregates. Filling ratios of up to 1 : 3 p.b.w. are self-levelling while filling ratios of up to approx. 1 : 10 p.b.w. (special aggregates SK 1) form a liquid-tight mortar if used appropriately. For filling ratios of 1 : 4 onwards, it must always be applied directly onto a bonding coat of MC-DUR 1200 VK (coverage approx. 300 - 500 g/m²). Highly filled mortars of up to approx. 1 : 15 p.b.w. still have very good compressive and flexural-tensile strengths but are additionally coated with MC-DUR 1200 VK or other MC-DUR resins to achieve sufficient liquid tightness.

Application on vertical areas

For sloped or vertical areas, MC-DUR 1200 VK is added approx. 3 - 5 weight-% MC-Stellmittel TX 19 (MC-Thixotropic Agent TX 19).

General Information

Coverage, application times, resistance to foot traffic and time until full resistance are determined by temperature and site properties and condition. See also leaflet "General Application Advice": "Reactive Resins".

Exposure to chemicals and UV-light may cause colour changes, which usually do not affect the properties and usability of the coating.

Mechanically and chemically exposed surfaces are subject to wear and tear. Regular check-ups and continuous maintenance are advised.

Technical data for MC-DUR 1200 VK

Characteristic	Unit	Value	Comments
Mixing ratio	p.b.w.	3 : 1	base : hardener
Density	g/cm ³	approx. 1.100	-
Viscosity	mPa•s	approx. 600	at 20°C and 50% relative humidity
Pot life			
5 kg	minutes	25	at 20°C and 50% relative humidity
25 kg	minutes	15	
Resistance to foot traffic after...	hours	approx. 12	at 20°C and 50% relative humidity
Time until full resistance	days	7	at 20°C and 50% relative humidity

Resin: quartz sand 0.3 - 0.6 mm, p.b.w. = 1 : 5

Compressive strength	N/mm ²	approx. 72	after 7 days
Flexural strength	N/mm ²	approx. 25	after 7 days

Resin: special aggregate SK 1, p.b.w. = 1 : 8

Compressive strength	N/mm ²	approx. 80	after 7 days
Flexural strength	N/mm ²	approx. 30	after 7 days
Application conditions	°C	> 10 - < 30	air, material and substrate temperature
	%	< 85	relative humidity
	K	3	above dew point

Product Characteristics for MC-DUR 1200 VK

Cleaning agent	MC-Reinigungsmittel U
Colour	Transparent
Delivery	5 kg and 25 kg packs
Storage	Can be stored in cool (> 5°C - < 25 °C) and dry conditions for at least 12 months in original unopened packs. Protect from frost!
Disposal	In the interest of the environment, please empty all packs completely & in accordance with local regulations.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets and please take notice of the leaflet "Safety Measures for Handling Coating Materials and Reactive Resins". GISCODE: RE 1

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 08/21. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.