MC-DUR Zero VK

Transparent epoxy resin

BE SURE. BUILD SURE.

PRODUCT PROPERTIES

- Two-component, transparent epoxy resin
- Benzyl alcohol free
- Partially based on renewable raw materials
- According to EU-regulation 2004/42 (Decopaint standard): < 0,1 % VOC
- Meets the criteria of AgBB for the use in inner areas
- Registered with DGNB (Code: M57A2N)

AREAS OF APPLICATION

- Primer for mineral-based substrates
- Binder for scratch-, filling- and levelling-coats
- Bonding agent and binder for reactive resin mortars
- REACh-assessed exposure scenarios: periodical water-contact, long-term inhalation, application

APPLICATION ADVICE

Substrate Preparation/Mixing: See leaflets ”General Application Advice”: ”Industrial Flooring - Substrate and Substrate Preparation” and ”Reactive Resins”.

Priming: Application of MC-DUR Zero VK as a primer is carried out by means of rubber squeegee and/or roller. 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).

Scratch coat: Scratch- and levelling coats of MC-DUR Zero VK/quartzsand are applied with steel floats, rubber squeegees and/or adjustable screeding tools onto the primer. The scratch- and levelling coat consists of MC-DUR Zero VK and oven-dried quartzsand (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: The properties of MC-DUR Zero VK depend on 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 aggregate "MC-Spezialkörnung SK 1") form a liquid-tight mortar if used appropriately. For mixing ratios of 1 : 4 onwards it must always be applied directly onto a bonding agent of MC-DUR Zero 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 flexuraltensile strengths but are additionally coated with MC-DUR Zero or other MC-DUR resins to achieve sufficient liquid tightness.

Application on vertical areas: For sloped or vertical areas MC-DUR Zero VK is added approx. 3 - 5 % by 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.

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TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	65 : 35	base component : hardener component
Density	g/cm³	approx. 1.05	at 20° C and 50 % rel. humidity
Viscosity	mPa·s	approx. 1,800	at 20° C and 50 % rel. humidity
Working time	minutes	approx. 20	at 20° C and 50 % rel. humidity
Compressive strength	N/mm²		Mixing ratio 1:8 (GT)
		approx. 71	with special aggregate MC-Spezialkörnung SK 1
Overworkable after	hours	approx. 12 - 24	at 20° C and 50 % rel. humidity
Accessible after	hours	approx. 12	at 20° C and 50 % rel. humidity
Application conditions	°C	≥ 12 ≤ 30	air and substrate temperatures
	%	≤ 85	rel. humidity
	K	> 3	above dew point
Consumption	kg/m²		
Primer		approx. 0.3	
Scratch and levelling coat		approx. 0.6	
	All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.		

Equipment cleaning agent	MC-Cleaner eco
Colour	transparent
Delivery form	10 kg packs
Storage	Can be stored in cool (below 20°C) and dry conditions for 12 months in original unopened packs. Protect from frost.
Packaging disposal	Make sure single-use containers are completely empty.
EU Regulation 2004/42 (Decopaint Directive)	RL2004/42/EG AII/j (500 g/l) ≤ 500 g/l VOC

Safety instructions
Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : RE30

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