



MC-DUR VS/VS-PUR

Epoxy- and polyurethane-based sealer

Product Properties

MC-DUR VS

- two-component, solvent-containing epoxy resin sealer for use in industrial areas
- transparent and pigmented, applicable by brush, roller and spraying

MC-DUR VS-PUR

- two-component, solvent-containing, pigmented polyurethane resin sealer for use in industrial areas
- silk-shine, colour-stable, non-yellowing or chalking
- applicable by brush, roller and spraying

Areas of Application

MC-DUR VS

- sealing of concrete and steel surfaces exposed to increased chemical loading
- improving the resistance of structural parts against freeze/thaw changes
- for use in industrial areas or similar
- REACh-assessed exposure scenarios: periodical water-contact, periodical inhalation, application

MC-DUR VS-PUR

- top-sealer as part of the MC-DUR VS-system, for colour- and gloss-stability
- for use in industrial areas or similar
- REACh-assessed exposure scenarios: periodical water-contact, periodical inhalation, application

Application

Substrate Preparation/Mixing

See leaflets "General Application Advice": "Industrial Flooring - Substrate and Substrate Preparation" and "Reactive Resins". Disruptions, pores and blow holes must be closed beforehand (see also leaflet "Levelling").

Steel Surfaces

Steel surfaces must be blasted to a standard grade of cleanliness Sa 2 1/2 according to DIN EN ISO 12944-4, and overworked before a rust film can develop. After blasting a corrosion protection with Colusal VS (see technical data sheet) is applied before application of the first coating.

Priming

Mineral-based substrates are primed with MC-DUR VS transparent, applied with roller. For slip-form and climbing form construction, MC-DUR 1277 WV (see technical data sheet) may also be used for priming.

Application

MC-DUR VS pigmented is usually applied in two

layers with roller, brush or airless spraying. In areas which require a high optical quality non-yellowing MC-DUR VS-PUR should be applied in the second work step.

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".

Concerning the batch colour consistency, please note the general information on the 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 VS / MC-DUR VS-PUR

Characteristic	Unit	Value	Value	Comments
Binder Base		epoxy	polyurethane	
Mixing ratio	p. b. w.	4 : 1	10 : 1	base : hardener
Density	g/cm ³ g/cm ³	approx. 0.95 approx. 1.3	- approx. 1.3	transparent pigmented
Application time	hours	approx. 12	approx. 8	at 20 °C and 50 % relative humidity
Resistant to foot traffic after...	hours	approx. 8	approx. 8	at 20 °C and 50 % relative humidity
Time until full resistance	days	7	7	at 20 °C and 50 % relative humidity
Application conditions	°C % K	≥ 10; ≤ 30 ≤ 85 3	≥ 10; ≤ 30 ≤ 85 3	air, material and substrate temperature relative humidity above dew point
Coverage	kg/m ² kg/m ²	approx. 0.2 0.25-0.3	0.2-0.25	transparent pigmented

Product Characteristics for MC-DUR VS / MC-DUR VS-PUR

	MC-DUR VS	MC-DUR VS-PUR
Colour	transparent and MC-grey, approx. RAL 1001, 7023, 7030, 7032 Further colours on request.	MC-grey, approx. RAL 1001, 7023, 7030, 7032 Further colours on request.
Delivery	transparent: 10 kg packs pigmented: 12 or 30 kg packs	pigmented: 12 or 30 kg packs
Cleaning agent	MC-Reinigungsmittel U	MC-Reinigungsmittel U
EU-regulation 2004/42 (Decopaint standard)	RL2004/42/EG All/j (550/500 g/l) max 492 g/l VOC	RL2004/42/EG All/j (550/500 g/l) max 446 g/l VOC
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least one year in original unopened packs. Protect from frost!	
Disposal	Packs must be emptied completely.	

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 chapter "Safety Measures for Handling Coating Materials and Reactive Resins".

MC-DUR VS: GISCODE: RE2.5 / MC-DUR VS-PUR: GISCODE: PU50

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 04/09. 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.