

MC-DUR 2211 MB

Two-component polyurethane resin for use as crack-bridging interlayer or wearing layer for strewn floor coatings in car parks



PRODUCT PROPERTIES

- Highly flexible, crack-bridging interlayer (floating layer) based on polyurethane
- Dynamic crack bridging as OS 10 system: IVT+V at -20° C according to TL/TP BEL-B 3 and crack bridging class B 4.2 (-20 °C)
- Dynamic crack bridging as OS 11 system: Crack bridging class B 3.2 (-20 °C)

AREAS OF APPLICATION

- Basically exterior on weather-exposed areas or tween decks exposed to high mechanical impact
- Approved according to TL/TP BEL-B3 as OS 10 coating system
- Certified within the OS 11a/b system according to DIN V 18026 and EN 1504-2
- REACH-assessed exposure scenarios: periodical water-contact, periodical inhalation, application

APPLICATION ADVICE

Substrate preparation / Mixing: See leaflets "MC-Industrial Floors - Substrate and Substrate Preparation" and "Levelling". See leaflet "General Application Advice - Reactive Resins".

Priming/scratch coat: See technical data sheet "MC-DUR 1320 VK". The primer/scratch coat must be lightly strewn with oven-dried quartz sand (grain size 0.3 - 0.8 mm) when fresh.

Application as OS 10 system: MC-DUR 2211 MB is applied with a consumption of 2,600 g/m² to the primed or scratch-coated substrate with a trowel or toothed bar and de-aerated with a spiked roller while fresh. The surface must be recoated with the following layer after 18 to max. 24 hours (at 20 °C). If MC-DUR 2211 MB cannot be overcoated with the following wearing layer after 24 hours (at 20 °C), a bonding agent (Mycoflex 251; consumption approx. 80 - 100 g/m²) is required. In this case, the wearing layer is applied after approx. 2 hours.

Application as OS 11a system: MC-DUR 2211 MB is applied with a consumption of 2,100 g/m² to the primed or scratch-coated substrate with a trowel or toothed bar and de-aerated with a spiked roller while fresh. The surface must be recoated with the following layer after 18 to max. 24 hours (at 20 °C). If MC-DUR 2211 MB cannot be overcoated with the following wearing layer after 24 hours (at 20 °C), a bonding agent (Mycoflex 251; consumption approx. 80 - 100 g/m²) is required. In this case, the wearing layer layer is applied after approx. 2 hours.

Application as OS 11b system: MC-DUR 2211 MB (consumption 2,300 g/m²) is filled with 30 % (=690 g/m²) oven-dried quartz sand (grain size 0.1 - 0.3 mm). The mixture is applied with a trowel, squeegee or rubber squeegee at a consumption of 2,990 g/m² and deaerated with the spiked roller in a crosswise motion. Subsequently, the coating is strewn with oven-dried quartz sand (0.3 - 0.8 mm) in excess (approx. 5,000 g/m²) when fresh. After hardening, the excess sand is removed and a top coat of MC-DUR 1322 is applied (see technical data sheet "MC-DUR 1322"). The top sealer is sharply scraped over the grain with a rubber squeegee and cross-smoothed with a short-pile lambskin roller.

Application on vertical areas: For use on sloped or vertical areas MC-DUR 2211 MB can be mixed with approx. 3 - 5 weight-% of thixotropic agent MC-Stellmittel 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 leaflet "General Application Advice - Reactive Resins".

Both application and curing time are basically determined by air, material and substrate temperature. Low temperatures generally retard chemical reactions and therefore lengthen the pot life, resistance to foot traffic and overcoating times. Parallel the higher viscosity might increase the consumption per unit area. Conversely, higher temperatures accelerate chemical reactions and shorten the above mentioned values. In addition the material must be protected from direct water exposure for approx. 36 hours (min. 15 °C) after application. During this time exposure to water might cause foaming and/or stickiness at the surface. In order to ensure thorough hardening of MC-DUR 2211 MB the average temperature of the substrate must not fall below the lowest application or structure temperature.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	approx. 1 : 2	base component : hardener component
Density	g/cm ³	approx. 1.2	
Viscosity	mPa·s	approx. 5,500	at 20° C and 50 % rel. humidity
Working time	minutes	approx. 30	at 20° C and 50 % rel. humidity
Accessible after	hours	approx. 18	at 20° C and 50 % rel. humidity
Resilient after (full)	days	3	at 20° C and 50 % rel. humidity
Application conditions	°C	≥ 10 ≤ 30	air and substrate temperatures
	%	≤ 75	rel. humidity
	K	3	above dew point
Consumption	kg/m ²	2.6	OS 10 surface protection system
		2.1	OS 11a surface protection system
		2.3	OS 11b surface protection system

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

Equipment cleaning agent	MC-Reinigungsmittel U
Colour	grey
Delivery form	30 kg packs
Storage	Can be stored in original sealed packages at temperatures between 15°C and 20°C in dry conditions for at least 12 months.
Packaging disposal	Make sure single-use containers are completely empty.
EU Regulation 2004/42 (Decopaint Directive)	RL2004/42/EG All/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 : PU40

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. [2300018214]