

# MC-DUR TopSpeed flex plus

Rapid, moisture-compatible and highly crack-bridging roller coating



## PRODUCT PROPERTIES

- Fast-curing, low-solvent, 2-component reaction resin based on KineticBoost-Technology®
- Highly flexibilised
- Reliable curing largely immune to moisture and temperature influences
- Short overworking/overcoating time
- Good resistance to dilute acids, lyes and salt solutions
- Brush-on, roll-on and sprayable
- Increases application time with accelerated curing
- Registered with DGNB (Code: 3899NG)

## AREAS OF APPLICATION

- Crack-bridging reaction resin for mineral based substrates as floor coatings / Industrial floors
- Coverage of old coatings
- Surface protection grade OS 8 and OS 10 per German standard DAfStb Rili SIB 2001, EN 1504-2 and DIN V 18026
- Suitable for application in adverse weather conditions
- REACH-assessed exposure scenarios: application, permanent inhalation, watercontact periodical

## APPLICATION ADVICE

**Substrate preparation:** See leaflets "General Application Advice", "Substrate and Substrate Preparation" and "Reactive Resins".

**Priming:** Depending on requirements, MC-DUR TopSpeed SC or an EP-based primer, such as MC-DUR 1200 VK or MC-DUR 1177 WV-A. See corresponding technical datasheets.

**Application as surface protection system OS 8:** The sealing layer, consisting of MC-DUR TopSpeed flex plus, is applied to the cured primer or scratch coat at a consumption of 4000 g/m<sup>2</sup> using an appropriate toothed bar/squeegee or roller. The layer should then be immediately re-rolled with a spiked roller. After a waiting time of at least 4 hours and a maximum of 18 hours, MC-DUR TopSpeed is applied as a strewing layer. If MC-DUR TopSpeed flex plus cannot be overlaid with the following layer within 18 hours, the adhesion promoter Mycoflex 251 must be used. For further information, please consult the leaflet "Instructions for Use".

**Application as surface protection system OS 10 - single-layer application:** The sealing layer, consisting of MC-DUR TopSpeed flex plus, is applied to the cured primer or scratch coat at a consumption of 1,000 g/m<sup>2</sup> using an appropriate toothed bar or squeegee. The sealing layer should then be immediately re-rolled with a spiked roller. After a waiting time of at least 18 hours and a maximum of 24 hours, MC-DUR TopSpeed is applied as a strewing layer. If MC-DUR TopSpeed flex plus cannot be overlaid with the following layer within 24 hours, the adhesion promoter Mycoflex 251 must be used. For further information, please consult the leaflet "Instructions for Use".

**Application as surface protection system OS 10 - two-layer application:** The crack-bridging intermediate layer consisting of MC-DUR TopSpeed flex plus is applied to the hardened primer or scratch coat with a consumption of 500 g/m<sup>2</sup> using an appropriate toothed bar/squeegee or roller. The layer should then be immediately re-rolled with a spiked roller. After a minimum of 4 hours and a maximum of 18 hours, the second layer is applied, also with 500 g/m<sup>2</sup>. After a waiting time of at least 4 hours and a maximum of 18 hours, MC-DUR TopSpeed is applied as a strewing layer. If MC-DUR TopSpeed flex plus cannot be overlaid with the following layer within 18 hours, the adhesion promoter Mycoflex 251 must be used. For further information, please consult the leaflet "Instructions for Use".

**Application with polyester fleece - crack bandage:** If a polyester fleece is applied into the crack-bridging intermediate layer consisting of MC-DUR TopSpeed flex plus, the application must be carried out in two working steps. On top of the cured primer or scratch coat, MC-DUR TopSpeed flex plus is applied with a consumption of at least 1 kg/m<sup>2</sup> using an appropriate toothed bar/squeegee. Immediately afterwards, the polyester fleece MC-Floor Tex, must be laid into the still fresh coating layer without bubbles using a hand-laminating roller or a steel trowel. After a waiting time of 4 hours, a second layer of MC-DUR TopSpeed flex plus with a consumption of 1 kg/m<sup>2</sup> must be applied.

## APPLICATION ADVICE

**Application with polyester fleece - waterproofing membrane :** For a waterproofing membrane according to EAD 030350-00-0402 (formerly ETAG 005), MC-DUR TopSpeed flex plus is applied as with the crack bandage, but with a consumption of approx. 1.25 kg/m<sup>2</sup> per layer.

**Application to vertical surfaces:** For sloping or vertical substrates, MC-DUR TopSpeed flex plus should be modified by adding approx. 2 – 4 % by weight of the thixotropic agent MC-Stellmittel TX 19 to ensure coating adhesion.

**Application on old coatings:** The existing PU- or EP-based coating is slightly grinded and hovered. Furthermore, the surface is cleaned with a mild cleaner and afterwards washed with clean water. MC-DUR TopSpeed flex plus is applied with a 2 mm serrated rubber spreader or roller, strip-and lap free. A test area is recommended before application.

**General Information:** See also leaflet “General Application Advice - Reactive Resins”. Ensure thorough mixing the base and the hardener component. Following mixing materials to be repotted into a clean container and mixed again. Exposure to chemicals may cause color 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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	100 : 112	base component : hardener component
Density	g/cm <sup>3</sup>	approx. 1.18	at 20° C and 50 % rel. humidity
Viscosity	mPa s	approx. 2,500	at 20° C and 50 % rel. humidity
Working time	minutes	approx. 60	at 20° C and 50 % rel. humidity
Overworkable after	hours	4 - 24	at 20° C and 50 % rel. humidity
		6 - 24	at 2°C and 50% rel. humidity
Accessible after	hours	4 - 24	depending on layer thickness and temperature / moisture content
Resilient after	hours	24	at 20° C and 50 % rel. humidity
Resilient after (full)		48	at 20° C and 50 % rel. humidity
Application conditions <sup>1)</sup>	°C	≥ 2 ≤ 35	air, substrate and material temperatures
	%	≥ 50	temperature must not fall below dew point
Consumption <sup>2)</sup>	g/m <sup>2</sup>		
Intermediate layer		approx. 400	OS 8
As a waterproofing layer		approx. 1,000	OS 10
		approx. 1,250	per operation

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

1) Viscosity and consumption depending on material temperature. For ideal consumption quantities and application properties, a material storage at approx. 20 °C is recommended.

2) Application in one or two layer (see "application advice" on page 1)

Equipment cleaning agent	MC-Reinigungsmittel U
Colour	grey
Delivery form	packages 20 kg
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 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 : PU20

**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. [2300018258]