

MC-Floor TopSpeed flex plus

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



Product properties

- Fast-curing, low-solvent, UV-stable 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
- Open to water vapour diffusion

Areas of application

- Crack-bridging reaction resin for mineral based substrates as floor coatings / Industrial floors
- Coverage of old coatings
- Surface protection grade 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

Substrate preparation

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

Priming

Depending on requirements, MC-Floor 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 a surface protection system OS 10

The waterproofing layer, consisting of MC-Floor TopSpeed flex plus, is applied to the cured primer or scratch coat with a 2 mm serrated rubber spreader or roller. To ensure an ideal deaeration the waterproofing layer has to be overworked with a spike roller. The precise structure of the coating must be in accordance with the corresponding test reports. The second waterproofing layer should be applied after a minimum of 3 hours and a maximum of 18 hours. This is then followed by application of MC-Floor TopSpeed as a dry-shake layer. For further information, please consult the leaflet "Instructions for Use".

Application to vertical surfaces

For sloping or vertical substrates, MC Floor 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-Floor TopSpeed flex 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 Data for MC-Floor TopSpeed flex plus

Characteristic	Unit	Value	Comment
Mixing ratio	p.b.w.	100 : 112	base component: hardener
Density	g/m ³	approx. 1.18	at 20 °C and 50 % rel. humidity
Viscosity	mPa·s	approx. 2,500	at 20 °C and 50 % rel. humidity
Application time	minutes	approx. 60	at 20 °C and 50 % rel. humidity
Reworking time	hours	3 6	at 20 °C and 50 % rel. humidity at 2 °C and 50 % rel. humidity
Time to accessibility	hours	4	at 20 °C and 50 % rel. humidity
Fully resilient after	hours	approx. 24	at 20 °C and 50 % rel. humidity
Crack-bridging (dynamic)	Grade	B 4.1	with 2 x 500 g/m ² (- 20 °C) Procedure B per EN 1062-7:2004
Application conditions	°C	≥ 2; ≤ 35 ≥ 50 % RH	air/material/substrate temperature temperatures are not permitted to fall below the dew point
Consumption	g/m ²	approx. 500	per layer

Product Characteristics for MC-Floor TopSpeed flex plus

Cleaning agent	MC-Reinigungsmittel U
Color	MC-grey
Delivery	packages 20 kg
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least one year in original unopened packs. Protect from frost/freezing temperatures!
EU-regulation 2004/42 (Decopaint-standard):	RL2004/42/EG All/j (500 g/l) < 500 g/l VOC
Disposal	Packs must be emptied completely.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and the safety information sheets.

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 07/20. 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.