MC-Floor TopSpeed SC

Low-viscosity, fillable, transparent special Polyurethane resin

Product Properties

- Two component, transparent, Polyurethane based resin
- Fillable with mineral aggregates
- Fast-curing
- Curing almost not related to temperature and moisture influence
- Short waiting time between two work steps

Areas of Application

- Primer for mineral substrates underneath EP- and PU-coatings
- Binder for scratch- and levelling coats
- Application even under bad weather conditions
- REACH-assessed exposure scenarios: application, permanent inhalation, watercontact periodical

Application

Substrate preparation
See leaflets “General Application Advice”, “Industrial Flooring - substrate and Substrate Preparation” and “Reactive Resins”.

Priming
Application of MC-Floor TopSpeed SC as a primer is carried out by means of rubber squeegee and/or roller. The waiting time is 2 to 12 hours. If it cannot be over coated within 12 hours, the fresh primer has to be slightly strewn with quartz sand (0.1 mm - 0.3 mm) or slight grinding and cleaning is mandatory.

Scratch coat
Scratch- and levelling coats of MC-Floor TopSpeed SC/quartz sand are applied with steel floats, rubber squeegees and/or adjustable screeding tools onto the primer. The scratch- and levelling coat consist of MC-Floor TopSpeed SC and quartz sand in a ratio of 1 : 1 to 1 : 2 p.b.w. If it cannot be over coated within 12 hours, the fresh scratch coat has to be slightly strewn with quartz sand (0.1 mm - 0.3 mm).

Resin-based mortar
The properties of MC-Floor TopSpeed SC depend on filling ratio and grading curve of the aggregates. A filling ratio of 1 : 8 p.b.w. (special aggregates SK 1) forms a liquid-tight mortar if used appropriately. Lower filling degrees must be avoided. The mortar must always be applied directly onto a bonding agent of MC-Floor TopSpeed SC (150 - 300 g/m²). For differing filling ratios please ask for technical support

Application on vertical areas
On sloped or vertical areas, MC-Floor TopSpeed SC is added approx. 2 - 4 weight-% 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 also leaflet ”General Application Advice - Reactive Resins”.

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.

A high layer thickness in combination with a high binder ratio can lead to a delayed hardening.

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Technical Data for MC-Floor TopSpeed SC

Characteristic	Unit	Value	Comments
Mixing ratio	p.b.w.	100 : 60	base : hardener
Density	g/cm³	approx. 1.1	at 20 °C and 50 % relative humidity
Viscosity	mPas	approx. 1,100	at 20 °C and 50 % relative humidity
Application time	minutes	approx. 20	at 20 °C and 50 % relative humidity
Curing time (dust-dry)	hours hours	2 2,5	at 20 °C and 50 % relative humidity at 2 °C and 50 % relative humidity
Time until full resistance	days	2 3	at 20 °C and 50 % relative humidity at 2 °C and 50 % relative humidity
Binder : MC-Special aggregate SK 1	p.b.w.	1 : 8	Max. compressive strength approx. 70 N/mm²
Application conditions	°C	≥ 2; ≤ 35	air-, material- and substrate temperature The dew point must not fall below.
Coverage (Approx.)	g/m² g/m² g/m²/mm g/m²/mm	150 - 300 approx. 400 approx. 600 approx. 250	as primer as scratch coat (1 : 2 p.b.w.) as levelling coat (1 : 2 p.b.w.) as resin-based mortar (1 : 8 p.b.w.)

Product Characteristics for MC-Floor TopSpeed SC

Cleaning agent	MC-Reinigungsmittel U
Standard colour	Transparent
Delivery	Buckets of 5 kg; 10 kg
Storage	Can be stored in cool (below 20 °C) and dry conditions for approx. 12 months in original unopened packs. Protect from frost!
Disposal	Packs must be emptied completely.
EU-regulation 2004/42 (Decopaint-standard)	RL2004/42/EG AII/j (500 g/l) < 500 g/l VOC

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

Edition 04/18. 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.

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