

# MC-DUR TopSpeed SC

Rapid, transparent, fillable and moisture compatible reactive resin



## PRODUCT PROPERTIES

- Two component, transparent reaction resin based on the KineticBoost-Technology®
- Fillable with mineral aggregates
- Fast-curing
- Curing almost not related to temperature and moisture influence
- Short waiting time between two work steps
- Registered with DGNB (Code: 9U2L9K)

## AREAS OF APPLICATION

- Primer for mineral substrates underneath EP- and PU-coatings
- Surface protection system OS 8/OS 10 according to DAfStb Rili SIB 2001, DIN EN 1504-2 and DIN V 18026
- Binder for scratch- and levelling coats
- Application even under bad weather conditions
- REACH-assessed exposure scenarios: application, permanent inhalation, watercontact periodical

## APPLICATION ADVICE

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

**Priming:** Application of MC-DUR 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-DUR 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-DUR 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) immediately after application.

**Resin-based mortar:** The properties of MC-DUR 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-DUR TopSpeed SC (150 - 300 g/m<sup>2</sup>). For differing filling ratios please ask for technical support

**Application on vertical areas:** On sloped or vertical areas, MC-DUR TopSpeed SC is added approx. 2 - 4 weight-% MC-Stellmittel TX 19.

**General information:** 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.

Base-component contains drying-agent. Sediments which may appear in the bucket have no influence on the material quality. The sediments, if appeared, must not be mixed up into the material during the normal mixing process.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	100 : 60	base component : hardener component
Density	g/cm <sup>3</sup>	approx. 1.1	at 20°C and 50 % rel. humidity
Viscosity	mPa s	approx. 1,100	at 20°C and 50 % rel. humidity
Working time	minutes	approx. 20	at 20°C and 50 % rel. humidity
Overworkable after	hours	2	at 20°C and 50 % rel. humidity
		2.5	at 2°C and 50% rel. humidity
Resilient after (full)	days	2	at 20°C and 50 % rel. humidity
		3	at 2°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	g/m <sup>2</sup>		
Primer		approx. 150 - 300	
	g/m <sup>2</sup>		1:1 p.b.w. (0.1 - 0.3 mm)
As a scratch coat		approx. 600	
	g/m <sup>2</sup> /mm		1:8 p.b.w. (MC-Spezialkörnung SK1)
As a mortar		approx. 250	

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.

Equipment cleaning agent	MC-Reinigungsmittel U
Colour shade	transparent
Delivery form	Buckets of 5 kg or 10 kg
Storage	Can be stored in cool (below 20°C) and dry conditions for 18 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 AIII/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 : PU10

**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. [2300012509]