

MC-DUR TopSpeed ESD

Rapid, antistatic, pigmented sealer based on Special-Polyurethanes



PRODUCT PROPERTIES

- Two-component, low-solvent, UV-stable, fast-curing roller coating based on the electrostatically dissipative properties (report 10-449-2019 der B.E.stat. group)
- Good resistance against diluted acids, bases and saline solutions
- Paint-, roll- and spray application possible
- Increased working time and accelerated curing
- Curing not related to temperature and moisture influence.
- Short waiting time between two work steps
- High abrasion and scratch resistance
- open to water vapor diffusion
- Registered with DGNB (Code: SDDDS9)

AREAS OF APPLICATION

- Electrostatically dissipative sealer for mineral underlays
- Electrostatically protected areas (E.P.A.'s), suitable as sole earthing system with ESD-shoes
- Application even under bad weather conditions
- REACH- assessed exposure scenarios: application, permanent inhalation, periodical water contact

APPLICATION ADVICE

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

Priming: Depending on the requirements on siph MC-DUR TopSpeed SC or any other epoxy based primer like MC-DUR 1200 VK or MC-DUR 1177 WV-A. See the referring technical datasheet.

Conductive sealer: The earthing terminators (see manual of „Earthing Kit“) are to be set respecting the curing time of the primer in use (see the data sheet of the referring primer). Subsequently the conductive primer MC-DUR GLW (see data sheet of „MC-DUR GLW“) is applied by roller.

Application Sealer: MC-DUR TopSpeed ESD is rolled crosswise, strip- and lap free, on top of the cured primer. For optimal coloration, 2 work steps are required. The minimum waiting time between 2 work steps is 2 hours and max. 12 hours.

Application Anti-Skid Coating: The first roller coat is to be strewn in excess with conductive aggregate (ASR-N24) immediately after application. The excess of aggregates is to be removed by sweeping brush or vacuum cleaner after scraping off the excess aggregates by means of a floor scraper. MC-DUR TopSpeed ESD is applied with a hard rubber float (coverage approx. 600 g/m²) and back-rolled.

Application on existing coatings: The existing PU- or EP-based coating is slightly grinded and vacuum cleaned. Furthermore, the surface is cleaned with a mild cleaner and afterwards washed with clean water. MC-DUR TopSpeed is rolled crosswise, strip- and lap free, on top of the cured primer. For optimal coloration, two work steps are required.

Application as a conductive, slip resistant ESD hard grain coating:

MC-DUR TopSpeed ESD (approx. 330 g/m²) is mixed with 1 % by weight of MC-Stellmittel TX 19, pre-filled with MC-Spezialkörnung ASR-N60 (approx. 170 g/m²) in a mixing ratio of 1 : 0.5 parts by weight and mixed again. The coating material is then poured onto the substrate, spreaded out and smoothed sharply over the grain using a steel trowel. The mixture should be stirred up in between to ensure homogeneous composition of the aggregate. After application, the coating material is back-rolled crosswise with a structured roller. In order to maintain a uniform appearance, the structured roller must be rolled out dry regularly and exchanged depending upon its wear.

General information: For spray application please call the department for technical advice. See also leaflet "General Application Advice-Reactive Resins". Ensure thorough mixing of the base and the hardener component. Following mixing material is to be re-potted into a clean container and mixed again. For cleaning the floor any wax or polish must not be used at any time. They are able to build up insulation layers spoiling the electrostatic properties. Exposure to chemicals may cause color changes, which usu-

APPLICATION ADVICE

ally 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. Concerning the batch colour consistency, please note the general information on the leaflet "General Application Advice - Reactive Resins". In case of contact with disinfectants or bleaching agents such as chlorine, peroxide and sodium hypochlorite solutions, the colour of the coating surface may fade and microcracks and detachments may occur. This is typical for reactive resin coatings and is not a reason for complaints.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	approx. 2 : 1	base component : hardener component
Density	g/cm ³	approx. 1.34	
Viscosity	mPa s	approx. 1,500	at 20° C and 50 % rel. humidity
Working time	minutes	approx. 60	at 20° C and 50 % rel. humidity
Overworkable after	hour	> 2	
	hours	< 12	
Accessible after	hours	approx. 2 - 4	
Resilient after (full)	hours	approx. 48	
Application conditions ¹⁾	°C	≥ 2 ≤ 35	Temperatura del aire, soporte y material
	%	≥ 50	rel. humidity
Consumption	g/m ²		
As a roller coating		approx. 150 - 200	per operation
Top seal coat		approx. 600 - 700	depending on strewing material and grain size
Coating		approx. 330	single-layer slip resistant coating

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	MC-grey, approx. RAL 7035, other colours on request
Delivery form	10 kg and 20 kg packs
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 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 : PU30

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. [2300020115]