



MC-FLEX 2099

Ductile, chemical resistant polyurethane-based coating

Product Properties

- Solvent-free, pigmented, trafficable, polyurethane-based coating
- Self-levelling
- High chemical resistance and abrasion resistance
- Resistant to foot traffic, anti-skid surfaces are achieved by strewing with quartz sand

Areas of Application

- Floor coating for substrates with increased requirements to static crack-bridging
- Protection of concrete- and steel surfaces against chemical and mechanical impact
- REACh-assessed exposure scenarios: long-term water-contact, long-term inhalation, application

Application

Substrate Preparation

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

Cement-bound substrates

Priming

Use MC-DUR 1200 VK, please refer to technical data sheet MC-DUR 1200 VK. In case the primer is the contact layer to the top coat of MC-FLEX 2099 the fresh primer must be strewn with oven-dried quartz sand (0.2 - 0.6 mm), coverage 1 - 2 kg/ m².

Scratch Coat

Scratch- and levelling coat consisting of MC-DUR 1200 VK and oven-dried quartz sand (0.1 - 0.3 mm). See technical data sheet MC-DUR 1200 VK. In case the scratch coat is the contact layer to the top coat of MC-FLEX 2099 the fresh scratch coat must be strewn with oven-dried quartz sand (0.2 - 0.6 mm), coverage 1-2 kg/ m².

Steel Substrates

Steel substrates must be prepared in such a manner that the substrate is free from loose particles or any other contaminants or corroding agents. The steel has to be de-rusted up to a standard Sa 2 1/2 according to DIN EN ISO 12944-4. The resulting surface roughness must comply to the roughness class "medium (G)" or "medium (S)" according to ISO 8503-1.

Priming

Corrosion protection primer with Colusal VS, see technical data sheet Colusal VS. Colusal VS is

applied two work steps and afterwards strewn fresh with oven-dried quartz sand (0.1 - 0.3 mm), coverage 1 - 2 kg/ m².

Mixing

MC-FLEX 2099 consists of base and hardener component, supplied in pre-packed quantities. Prior to application both components are mixed thoroughly using slowly rotating mixers. After mixing the material is poured into a clean container and mixed again (re-potting).

Application

MC-FLEX 2099 is poured onto the substrate, spread using a pin screed or trowel and afterwards deaerated with a spiked roller. For floor surfaces with a slope > 1 % MC-Stellmittel TX 19 is added.

General Information

Coverage, application time, resistance to foot traffic and time until full resistance are determined by temperature and object properties and condition. See also leaflet "General Application Advice - Reactive Resins".

Concerning the batch colour consistency, please note the general information on the leaflet "General Application Advice - Reactive Resins".

Exposure to chemicals and UV-light may cause colour 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-FLEX 2099

Characteristic	Unit	Value*	Comments
Density (mixture)	g/cm ³	1.11	
Mixing ratio	p.b.w.	2 : 1	base : hardener
Viscosity (mixture)	mPa·s	approx. 3,500	
Pot life	minutes	20	
Resistant to foot traffic after	hours	approx. 12	
Time until full resistance	days	5	
Minimum application conditions	°C % K	> 6; < 30 < 85 3	air, material and substrate temperature relative humidity above dew point
Coverage	kg/m ²	1.1	per mm layer thickness

Product Characteristics for MC-FLEX 2099

Colour	grey, further colours on request.
Delivery	9 kg packs
Cleaning agent	MC-Verdünnung PU
Storage	Can be stored in original sealed packages at temperatures below 20 °C in dry conditions for at least 1 year. Protect from frost! Same requirements are valid for transport.
Disposal	Packs must be emptied completely.
EU-regulation 2004/ 42 (Decopaint standard)	RL 2004/ 42/ EG: All/j (500 g/l) < 40 g/l VOC

* All technical data relate to +23 ° C and 50 % relative humidity.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets and please take notice of the chapter "Safety Measures for Handling Coating Materials and Reactive Resins". GISCODE: PU40

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 12/14 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.