

# MC-DUR 2500

Highly chemical-resistant polyurethane-cement hybrid screed



## PRODUCT PROPERTIES

- High mechanical and chemical resistance
- Solvent-free, free from plasticisers
- Resistant to hot water cleaning up to 120 °C, also high pressure cleaning (min. layer thickness of 9 mm)
- Anti-skid surface

## AREAS OF APPLICATION

- Food industry
- Chemical industry
- Washing bays and tank purification plants
- REACH-assessed exposure scenarios: periodical inhalation, application

## APPLICATION ADVICE

**Substrate Preparation:** See leaflets "Industrial Flooring – Substrate and Substrate Preparation" and "Reactive Resins".

**Anchoring Grooves:** To prevent the outer edges of the coating from curling, anchoring grooves (depth and width = min. double layer thickness) have to be cut into the substrate. The anchoring grooves have to surround the entire daywork and all parts protruding the coating.

**Priming:** MC-DUR 2500 VE, see technical data sheet "MC-DUR 2500 VE". The priming must be strewn with oven-dried quartz sand 0.2 - 0.6 mm. Highly compacted concrete with a pull-off strength > 2 N/mm<sup>2</sup> may be coated without priming. Please ask for our special advice.

**Mixing:** MC-DUR 2500 consists of three components: component A (base), component B (hardener) and component C (aggregate), supplied in pre-packed quantities. Component A must be agitated separately before use. Before application, component A and B are mixed thoroughly using slowly rotating mixers. Mixing time shall be approx. 1 min. Component C (aggregate) is then added slowly to the mixture of A and B and mixed until homogeneous. Forced action mixers are to be used for mixing in component C. The mixing time depends on storage temperature. At 18 - 22 °C mixing takes at least 3 minutes.

**Application:** After mixing MC-DUR 2500 is poured onto the substrate and spread with a pin screed or a trowel. The fresh coating is smoothed with a spiked roller. The following material is to be applied within 10 minutes onto the free edges of the coating and deaerated with a spiked roller. Material older than 10 minutes must not be deaerated with a spiked roller again. After a waiting time of max. 15 minutes the surface is to be strewn evenly with oven-dried quartz sand. Depending on the required anti-skid properties quartz sand 0.2 - 0.6 mm or 0.5 - 1.2 mm can be used. We recommend to use pneumatically driven spray guns. After curing all loose sand is to be removed from the surface and the surface to be sealed with MC-DUR 2500 VE.

**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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	2.5 : 2.6 : 24.9	base component : Hardener component : aggregate
Density	g/cm <sup>3</sup>	approx. 2.1	
Working time	minutes	approx. 15	at 20° C and 50 % rel. humidity
Accessible after	hours	approx. 8	at 20° C and 50 % rel. humidity
Resilient after (full)	hours	24	at 20° C and 50 % rel. humidity
Application conditions	°C	> 15 < 30	air and substrate temperatures
	%	< 85	rel. humidity
	K	3	above dew point
Consumption	kg/m <sup>2</sup> /mm	approx. 2.1	

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

Equipment cleaning agent	MC-Reinigungsmittel U
Colour	green, grey, Beige, red
Delivery form	Component A: 2.5 kg canister Component B: 2.6 kg canister Component C: 24.9 kg bucket
Storage	Can be stored in cool (below 20°C) and dry conditions for 6 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 : PU40

**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. [2400020552]