

# MC-FLEX 2097

Chemically resistant polyurethane resin coating for two-component spray application



## PRODUCT PROPERTIES

- Fast-reacting, crack-bridging, abrasion resistant
- Thick-layer application, also on vertical and overhead surfaces
- Also available as anti-skid, anti-static and/ or colour stable finish

## AREAS OF APPLICATION

- Protection of concrete and steel surfaces against chemical and mechanical impact
- REACh-assessed exposure scenarios: long-term water-contact (excl. drinking water), application

## APPLICATION ADVICE

**Substrate Preparation:** The substrate must be sound and bear sufficient static load-bearing capability. Ground-connected components must be in fixed bond. See leaflets "General Application Advice": "Industrial Flooring – Substrate and Substrate Preparation" and "Reactive Resins".

**Priming:** The prepared substrate is coated with a primer and a scratch coat consisting of MC-DUR 1200 VK (see technical data sheet "MC-DUR 1200 VK"). The binder layer under MC-FLEX 2097 must be strewn with MC-Spezialsand WR. Vertical surfaces are coated using an air gun. Substrates of aerated concrete are coated with two layers of Zentrifix CR finish (see technical data sheet "Zentrifix CR finish", section "scratch coat") before application of MC-FLEX 2097. The minimum drying time between the first and the second layer is 3 days and at least 7 days between the second layer and MC-FLEX 2097. Substrates of mild steel are prepared by grit blasting to correspond to Sa 2 ½ in accordance with DIN EN ISO 12944-4. Colusal SP (see technical data sheet "Colusal SP") is used as corrosion protection, applied in two layers of different colour. The second layer must be strewn with MC-Spezialsand WR. Vertical surfaces are coated using an air gun. For spray application onto MC-FLEX Base see indications for substrate preparation in the technical data sheet "MC-FLEX Base".

**Spray Application:** Generally all standard two-component spraying pumps with a mixing ratio of 2 : 1 p.b.v. (base : hardener) are suitable. Both components must be separately heatable. The adjustable pot life also enables application with pumps with mixed delivery mode. For mixed hose length > 4 m we recommend to carry out spray trials under site conditions. Depending on equipment material temperatures are between 25 to 55 °C. The base component is to be heated by approx. 5 K higher than the hardener component. The application temperature should be as low as possible to keep the physical interaction on mineral substrates and the thermal expansion (spraying onto MC-FLEX Base) low.

**General Information:** Coverage, application time, resistance to foot traffic and time until full resistance are determined by temperature and object properties and conditions. 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	parts by volume	2 : 1	base component : hardener component
	mass fractions	1.7 : 1	base component : hardener component
	mass %	100 : 58	base component : hardener component
Density	g/cm <sup>3</sup>	approx. 1.1	mixture
		approx. 1.045	Master / Original
		approx. 1.22	hardener
Viscosity	mPa · s	approx. 1,200	mixture
		approx. 2,250	Master / Original
		approx. 800	hardener
Working time	minutes	approx. 3	
Application conditions	°C	≥ 8 ≤ 35	air and substrate temperatures
	%	≤ 85	rel. humidity
	K	3	above dew point
Resilient after (full)	hours	approx. 48	
Water resistant after	minutes	approx. 30	

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

Equipment Cleaning Agent	MC-Verdünnung PU
Colour Shade	MC-grey, other colours on request
Storage	Can be stored in original sealed packages at temperatures between 5°C and 20°C in dry conditions for at least 12 months.
Packaging Disposal	Make sure single-use containers are completely empty. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request.
EU Regulation 2004/42 (Decopaint Directive)	RL2004/42/EG Allj (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. [2100005529]