

MC-PowerPro HCR

Duroelastic coating system for highly chemically loaded surfaces in agriculture, sewage- and waste management



PRODUCT PROPERTIES

- Two-component, pigmented polymer-combination with integrated DPM-technology
- Nonylphenol-free, flexible binder
- Resistant to biogenic sulphuric acid corrosion
- Resistant to liquid manure, slurry and silage seepage
- Excellent abrasion resistance, accessible by pneumatic-tired vehicles
- Application by roller, trowel or airless spraying
- Crack-bridging
- System tested according to the DIBt test principles for JGS coatings

AREAS OF APPLICATION

- Suitable on all cement-based substrates (concrete, reinforced concrete, mortar) and on steel
- Suitable for the headspace of capped areas in sewage plants and digestion towers
- Suitable for cesspits, manure tanks, biogas tanks, clamp silos, manure cellars and manure drains, composting plants, drip pans, retention, solid manure slabs and drainage/filling areas
- Not suitable for coating of feed tables and potable water tanks
- REACH-assessed exposure scenarios: long-term water-contact (sewage water), periodical inhalation, application
- Certified and classified according to EN 1504 part 2 for principle 1, 2, 5 and 8, procedure 1.3, 2.2, 5.1 and 8.2

APPLICATION ADVICE

Substrate Preparation/System: Please see leaflet "General Application Advice MC-PowerPro HCR" for substrate preparation, substrate conditions and system build-up.

Priming: MC-PowerPro HCRprimer or Colusal SP are used as primer. Please see leaflet "General Application Advice MC-PowerPro HCR".

Mixing: MC-PowerPro HCR consists of a base and a hardener component, supplied in pre-packed quantities. Prior to application both components are mixed thoroughly until homogeneous using slowly rotating agitators. Following mixing MC-PowerPro HCR is filled into a clean container and stirred again.

Application: Following mixing MC-PowerPro HCR is applied within the indicated application time onto the prepared and primed substrate. The standard system is applied in three work steps, special systems (steel substrate / alternative system build-up) are applied in two work steps. Please see leaflet "General Application Advice MC-PowerPro HCR". Application of MC-PowerPro HCR is to be carried out continuously and streak-free. The waiting times between the separate work steps must be observed. Application must be stopped in case of rain, high humidity, frost or risk of frost. Freshly applied layers must be protected for 24 hours against water, direct sun and condensate formation.

General Information: Exposure to chemicals and UV-light may cause colour changes, which usually do not affect the properties and usability of the coating.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	10 : 3	base component : hardener component
Density (mixture)	g/cm ³	1.24	at 20° C and 50 % rel. humidity
Viscosity	mPa·s	3,000	at 20° C and 50 % rel. humidity
Working time	minutes	60	at 10° C
		45	at 20° C
		30	at 30° C
Application conditions	°C	≥ 8 ≤ 30	air, substrate and material temperatures
	%	≤ 85	rel. humidity
	K	3	above dew point
Consumption (standard structure) ¹⁾	g/m ²		
1st base filler		250 - 350	additionally 3 % by mass MC-Stellmittel TX 19
2nd roller coating		450 - 500	
3rd roller coating		450 - 500	
Consumption (steel substrate)	g/m ²		
1st roller coating		approx. 300	
2nd roller coating		approx. 300	
Resilient after (full)	days	7	
Layer thickness (dry)	µm		standard structure
		≥ 700	Calculated value
Solids content	Vol.-%	94	
Accessible after	hours	24	
Waiting times (standard structure) ²⁾	hours	2 - 4	primer / basic filler
		12 - 24	basic filler / 1st roller coating
		12 - 24	1st roller coating / 2nd roller coating

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

1) The consumption values depend on the impermeability, absorbency and type of substrate. To determine the object-specific consumption quantities, it is advisable to create test areas.

2) Basic filling with MC-PowerPro HCR + 3 % by mass MC-Stellmittel TX 19 (thixotropic agent)

Equipment cleaning agent	MC-Verdünnung EP
Colour	RAL 1013, RAL 7030, RAL 7032
Delivery form	10 kg packs
Storage	Can be stored in original sealed packages at temperatures between 8°C and 20°C in dry conditions for at least 12 months.
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.

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. [2300018095]