



# 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
- DIBt-approved coating system for use in JGS-(liquid manure, slurry, silage seepage) and biogas-plants no. Z-59.17-439
- The DIBt approval also includes the mandatory requirements according to paragraph 63 of water law

## 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
- REACH-assessed exposure scenarios: periodical water-contact, 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

### 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 Data for MC-PowerPro HCR

| Characteristic                    | Unit              | Value*        | Comments                                |
|-----------------------------------|-------------------|---------------|---|
| Mixing ratio                      | p.b.w.            | 10 : 3        | comp. A : comp. B                       |
| Density (mixed)                   | g/cm <sup>3</sup> | approx. 1.24  | at 23 °C and 50 % relative humidity     |
| Solid content                     | vol. %            | 94.0          |   |
| Viscosity (mixed)                 | mPa·s             | approx. 3,000 | at 23 °C and 50 % relative humidity     |
| Standard system**                 | g/m <sup>2</sup>  | 250 - 350     | 1. basic filler***                      |
| Coverage                          |                   | 450 - 500     | 2. roller coating                       |
|                                   |                   | 450 - 500     | 3. roller coating                       |
| Coverage (steel)                  | g/m <sup>2</sup>  | approx. 300   | first work step (roller)                |
|                                   |                   | approx. 300   | second work step (roller)               |
| Application time                  | minutes           | 60            | at + 10 °C                              |
|                                   |                   | 45            | at + 20 °C                              |
|                                   |                   | 30            | at + 30 °C                              |
| Standard system                   | hours             | 2 - 4         | priming / basic filler                  |
| Waiting time until next work step |                   | 12 - 24       | basic filler / 1st roller coating       |
|                                   |                   | 12 - 24       | 1st roller coating / 2nd roller coating |
| Resistant to foot traffic after   | hours             | 24            |   |
| Time until full resistance        | days              | 7             |   |
| Application conditions            | °C                | ≥ 8 - ≤ 30    | air-/material-/substrate temperature    |
|                                   | %                 | ≤ 85          | relative humidity                       |
|                                   | K                 | 3             | above dew point                         |

## Product Characteristics MC-PowerPro HCR

|  |  |
|--|--|
| Cleaning agent                             | MC-Verdünnung EP   |
| Standard colours                           | RAL 1001, 1013, 1014, 7030, 7032, 6013, 7016   |
| Delivery                                   | 10 kg packs  |
| Storage                                    | Can be stored in cool (below 20 °C) and dry conditions for at least one year in original unopened packs. Protect from frost! |
| Disposal                                   | Packs must be emptied completely.  |
| EU-regulation 2004/42 (Decopaint-standard) | RL2004/42/EG All/j (500 g/l) < 500 g/l VOC   |

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

\*\* Coverage rates depend on roughness, absorbency and type of substrate.

To determine the project-specific coverage we recommend to lay a sample area.

\*\*\* MC-PowerPro HCR + 3 % MC-Stellmittel TX 19

**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 05/19. 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.