

## PRODUCT PROPERTIES

- Two-component, pigmented epoxy resin
- Primer with active corrosion protection pigments

## AREAS OF APPLICATION

- Active corrosion protection primer under epoxy- or polyurethane resin coatings
- REACH-assessed exposure scenarios: periodical water contact, periodical inhalation, application
- Corrosion protection in concrete replacement system according to TL BE-PC
- Corrosion protection according to EN 12944-6 (class C2 / C3 / C4 / C5 - I / C5 - M as well as Im 1 / Im 2 / Im 3)

## APPLICATION ADVICE

**Substrate Preparation:** The steel surfaces to be coated must be prepared in accordance with Sa 2 ½ (DIN EN ISO 12944-4). The surfaces must be dry, free from surface rust and any other contaminants. Quartz-free grit blasting is suitable for cleaning.

**Mixing:** See leaflet "General Application Advice - Reactive Resins".

**Application:** Following substrate preparation Colusal SP is immediately applied using a roller, a brush or by airless spraying. The waiting time until overcoating with epoxy- or polyurethane resins is 12 - 24 hours (at + 20 °C) after application of the corrosion protection primer.

**General Information:** Coverage, application times, resistance to foot traffic and time until full resistance are determined by temperature and site properties and condition. See also leaflet "General Application Advice -Reactive Resins". Thorough mixing of the base-and hardener component must be observed. Following mixing the material is to be filled into a clean container (re-potting) and mixed again.

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.

For the application according to ZTV-ING, Part 7, the application is carried out (200 g/m<sup>2</sup>) in two layers with a waiting period of 12 - 24 hours between the working steps. The final layer must be strewn with quartz sand 0.1 - 0.3 mm (200 g/m<sup>2</sup>).

For the application according to BRL-K 9143 Colusal SP is applied with a consumption of at least 200 g/m<sup>2</sup>. After a waiting period not less than 12 hours (at + 20°C), when the contained solvents (< 4 %) are completely evaporated, a layer of resin consisting of MC-DUR 1300 VK-Grip is applied, consumption approx. 1,500 g/m<sup>2</sup>, and strewn with Mandurax 1 - 3 mm, consumption approx. 10 kg/m<sup>2</sup>.

**Repair works:** For partial repair works according to BRL-K 9143 the area requiring repair is marked rectangular and carved along the marking with a cutting disk. Afterwards the coating is grinded evenly with a plate grinding machine. Exposed steel has to be recoated and protected with Colusal SP. The coating is applied with the same consumption and similarly to a new construction.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	mass fractions	5 : 1	base component : hardener component
Density	g/cm <sup>3</sup>	approx. 1.53	
Viscosity	mPa s	approx. 3,300	at 20°C and 50% rel. humidity
Working time	minutes	≤ 45	at 20°C and 50% rel. humidity
Overworkable after	hours	approx. 12 - 24	at 20°C and 50% rel. humidity
Application conditions	°C	≥ 10 ≤ 30	air, substrate and material temperatures
	%	< 85	rel. humidity
	K	3	above dew point
Consumption	kg/m <sup>2</sup>		per roller (2 passes recommended)
		0.2	per operation
Resilient after	days	7	at 20°C and 50% rel. humidity
Solids content	%	91	

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

Equipment Cleaning Agent	MC-Reinigungsmittel U
Colour Shade	reddish brown, grey
Delivery Form	Pair of containers @ 5 kg
Storage	Can be stored in cool (below 20°C) and dry conditions for 24 months in original unopened packs. Protect from frost.
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 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 : RE30

**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. [2100005435]