



# Colusal SP

## Corrosion protection primer for steel substrates

### 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

#### 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 Data for Colusal SP

Characteristic	Unit	Value	Comments
Mixing Ratio	p. b. w.	5 : 1	component A : component B
Density	g/cm <sup>3</sup>	approx. 1.53	-
Solid content	%	91	
Viscosity	mPa·s	approx. 3,300	at 20° C and 50 % relative humidity
Application time max	minutes	approx. 45	at 20° C and 50 % relative humidity
Time until overcoating	hours	min. 12 max. 24	at 20° C and 50 % relative humidity
Time until full resistance	days	7	at 20 °C and 50 % relative humidity
Application conditions	°C % K	≥ 10; ≤ 30 ≤ 85 3	air, material and substrate temperature relative humidity above dew point
Coverage	kg/m <sup>2</sup>	approx. 0.2	

## Product Characteristics for Colusal SP

Cleaning agent	MC-Reinigungsmittel U
Standard colour	red-brown, grey
Delivery	5 kg packs
Storage	Can be stored in cool (below 20 °C) and dry conditions for 24 months 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) < 213 g/l VOC

### Safety Advice

Please take notice of the safety information and advice given on the packaging labels and the safety information sheets.

**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.

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