HEGGEL® Coat 101

Epoxy based Protective Coating, AWWA C210-15 approved

You Build, We Protect!

Description:

HEGGEL Coat 101 is a two-component solvent-free coating based on epoxy, with high quality corrosion protective pigments and inhibitors. The special combination with micaceous iron oxide (MIO) in the common DB colour shades, increases the diffusion barrier and thus the corrosion protection and weather resistance at interim weathering of the partial protection system (transport and installation period).

Characteristics:

- High chemical resistance
- Surface tolerant
- High solid content
- Outstanding abrasion resistance
- Quick drying
- Easy processing
- Very good wet-film stability

Applications:

HEGGEL Coat 101 is a high-performance coating which is especially suitable as corrosion protection for structural steel works, pipelines and concrete surfaces of any kind, for example in the chemical industry, water treatment industry, petrochemical industry, mining, ship building etc. **HEGGEL Coat 101** is non-saponifiable high abrasion resistant coating, offering excellent chemicals resistance, in particular in the alkaline range and good resistance to thaw and de-icing salt. This product is approved for AWWA C210-15, "Liquid-Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines".

Application Data:

Mixing Ratio (Parts by Weight)	A : B = 100 : 20 (5 : 1)
Pot Life (20°C)	Approx. 45 min
Finish	Silk gloss
Recommended Dry Film Thickness (DFT)	120 – 800 microns
Theoretical Coverage @120 microns DFT	Without MIO: Approx. 180 g/m^2
	With MIO: Approx. 190 g/m^2
Processing Temperature	Minimum +10°C up to maximum +35°C
Maximum Relative Humidity of Air	Maximum 85 %
Dew Point - Substrate Temperature	Minimum +3°C above dew point
Duration to Overcoat (20°C)	With PU top coats: after maximum 3 - 4 hrs
	With other products: after maximum 24 hrs
Drying time - Dust Dry (20°C)	Approx. 7 hrs
Drying time - Fast to Handling (20°C)	Approx. 11 hrs
Colour	Light grey, red-brown, sand-yellow without MIO Light grey, grey DB702 with MIO (Other colours are available on request)

Note 1: The drying time values indicated apply to a dry film thickness of 120 µm at +20°C and 65% relative humidity of air.

Note 2: All above values are approximate and may be used as a guideline for specifications.

Note 3: Due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur.

Technical Data:

Title	Value	Unit
Density	Without MIO: 1.51	g/cm^3
	With MIO: 1.61	g/cm^3
Solids Content	Approx. 99.7	%
VOC - Level	Without MIO: 4.7	g/L
	With MIO: 4.6	g/L
Viscosity	Intrinsically viscous	-
Flash Point	Part A: 140	°C
	Part B: 108	°C
Temperature Resistance (Dry)	Up to +150	°C

Storage:

Approx. 12 months, unopened in original drums under dry conditions and a temperature of 15 - 25ºC. Protect from heat and freeze!

1. Surface Preparation

The surface that is to be coated (steel or concrete) must be dry and free of mill scale, debris, grease, fat, oil, dust, areas of corrosion / rust as well as other contaminants which may impair the adhesion, at least manual derusting St 2 of the norm DIN EN ISO 12944, Part 4 for steel surfaces. Surface preparation by blast cleaning (with tough grit) preparation grade Sa 2½. Prior to, during and after surface preparation, application and curing the substrate temperature must be minimum +3°C above the dew point. In case of doubt the surface cleanliness must be measured regarding soluble contaminants prior to coating.

2. Application Method

Airless spray

Generally, “as delivered”.

Minimum pressure: 240 bar

Nozzle: 0.33 – 0.52 mm

Airless hot-spraying

As a rule, in “as delivered” consistence. Recommended is separately preheating of both components up to 40 – 50°C. Please note the decrease of pot life depending on temperature of the material. Specific consultation with our application engineers is recommended.

Minimum pressure: 160 bar

Nozzle: 0.33 – 0.52 mm

Brush / roller

When using a brush or roller apply the coat evenly and deeply. Generally, the coat is to be applied without thinning.

3. Repair of Existing Coating

Recommended surface preparation: Blast the flaws to PSa 2 of the DIN EN ISO 12944, Part 4. Repair with planned structure of layers. Grinding of old coat is necessary for re-coating.

4. Safety Measures

At processing, please respect the field given regulations for safety and health measures BGR 500, chapter 2.29 as well as the actual EC safety directives. When liquid the contents must not be let out into waste waters.

For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Safety Data Sheet.

All information contained herein is based on the current state of our knowledge and practical experience at the time of release. Therefore, please make sure that this is the latest edition of the Technical Data Sheet. All data are only intended as a guideline for informational purposes and do not constitute a legally- binding warranty of the suitability for a certain purpose of use, due to its dependence on site conditions and possible processing, use and applications. All information contained in this technical datasheet is subject to change without notice.

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