HEGGEL® Coat 130

Advanced Novolac Epoxy-Based Coating

You Build, We Protect!

Description:

HEGGEL Coat 130 is a two-component, solvent-free and pasty coating based on an advanced novolac epoxy resin and an amine hardener, developed in full accordance with DIN EN 10289:02.2002. It is designed for processing with a 2-component airless hot-spray system and forms a dense protective layer with excellent mechanical strength, high temperature resistance, and reliable long-term durability under demanding service conditions.

Characteristics:

- High chemical resistance across a wide range of chemicals
- Outstanding high-temperature resistance
- Excellent abrasion and impact resistance
- High resistance to cathodic disbondment at temperatures up to 180 °C
- Resistant against hydrogen
- VOC-free

Application Areas:

HEGGEL Coat 130 is designed for internal and external protection of containers, chemical storage tanks, pipelines, fittings, field joints, and process vessels exposed to aqueous media (excluding potable water).

Application Data:

Colour	RAL 7035 – light grey **Note:** Other colours can be provided upon request, depending on technical feasibility and minimum order quantity.	
Mixing Ratio	A : B = 65.7 : 34.3 (Parts by weight) A : B = 2.0 : 1.0 (Part by volume)	
Recommended Dry Film Thickness (DFT)	≥ 800 µm **Note:** The required DFT may vary depending on the application. Please contact HEGGEL for technical guidance.	
Theoretical Consumption	~ 1.20 kg/m^2 @800 microns DFT	
Temperature	**23 °C**	**60 °C**
Pot Life	90 min	10 min

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

Technical Data:

Title	Standard	Value
Solids Content	-	100%
Density (Mix) @23 °C	-	1.50 g/cm^3
Viscosity @50 °C	-	Part A: 4000 mPa.s Part B: 2000 mPa.s
Shore D Hardness	DIN EN ISO 828	90 ± 5
Impact Resistance	-	6 J/mm
Adhesion Strength (On Steel)	-	16 MPa
Adhesion Strength After Thermal Ageing (100 days at 100 °C)	-	≥ 9 MPa
Elongation at Break	-	> 3%
Specific Electrical Insulation Resistance (100 days @ 23 °C)	-	5 x 10^{10} Ωm²
Temperature Resistance	-	-20 °C to 180 °C Short term: 200 °C
Cathodic Disbondment (28 days)	DIN EN 10289:2002	23 °C: 2.8 mm
	CSA Z 245.20-18	95 °C: 4.8 mm
		150 °C: 10.8 mm
		180 °C: 11.2 mm

Packaging:

Hobbock: 30 kg component A + 30 kg component B
Drum: 300 kg component A + 250 kg component B

Storage:

Approx. 12 months, unopened in original drums under dry and cool conditions provided with adequate ventilation. Protect from heat and freeze!

1. Surface Preparation

To obtain the best results commence by grit blasting the surface to strip off the previous coating, followed by high-pressure water jet cleaning to cleanse any surface chemical contaminants and soluble salts.
Remove all oil and grease, then abrasive blast the surface to ISO 8501-1 Sa 2.5 using angular grit. Achieve minimum blast profile of 75 microns profile suitable for the coating. Clean away all dust and residues, and apply the coating immediately to avoid flash rusting.

2. Environmental Conditions

Environmental Conditions	Value
Maximum Relative Humidity	≤ 80%
Substrate Temperature	min. 10 °C
Processing Temperature	50 °C 80 °C
Dew Point Distance	min. 3 °C

3. Application Tools

Application is performed using a 2-component airless hot-spray system to ensure proper mixing and film build during application.

4. Mixing

Pre-heat and circulate component A and component B separately, then feed both components into the 2-component hot-spray unit. Ensure precise ratio control, and allow dynamic in-gun mixing until a uniform, streak-free output is achieved. No thinning or solvent addition is permitted at any stage.

The recommended processing temperature range for Components A and B is between 50 °C and 80 °C.

5. Application

Use a 2-component airless hot-spray unit with controlled heating capability. Ensure correct mixing ratio through dual-line feed.

Note: Do not use thinners. The working tools must be cleaned immediately after use with HEGGEL cleaners.

6. Safety Measures

Explosion-protection requirements for construction and equipment are specified in accordance with DIN EN 16985.

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal and local requirements for handling hazardous materials must be observed.

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