

HEGSEL® Coat 130

Advanced Novolac Epoxy-Based Coating

You Build, We Protect!

Description:

HEGSEL Coat 130 is a two-component, solvent-free and pasty coating based on an advanced Novolac epoxy resin and an amine hardener, developed in accordance with DIN EN 10289:2002. 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 is designed to provide durable protection under suitable application and service conditions.

Characteristics:

- Good chemical resistance across a wide range of chemicals
- High temperature resistance
- Excellent abrasion and impact resistance
- VOC-free
- High resistance to cathodic disbondment at temperatures up to 180 °C
- Designed for hydrogen-related service environments, subject to project-specific technical review.

Application Areas:

HEGSEL Coat 130 is designed for internal and external protection of containers, 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 (Parts by volume)	
Recommended Dry Film Thickness (DFT)	≥ 800 µm Note: The required DFT may vary depending on the application. Please contact HEGSEL for technical guidance.	
Theoretical Consumption	~ 1.50 kg/m ² @ 1,000 µm 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 @ 23 °C	-	Part A: 1.48 g/cm ³ Part B: 1.55 g/cm ³ Mix: 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	85 ± 5
Impact Resistance	-	5 J/mm
Adhesion Strength (On Steel)	-	> 20 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 Ωm ²
Temperature Resistance	-	-20 °C to 180 °C Short term (without temp. gradient to the substrate): 200 °C
Cathodic Disbondment (28 days)	DIN EN 10289:2002	23 °C: 3.0 mm
	CSA Z 245.20-18	95 °C: 4.8 mm
		150 °C: 10.8 mm
		180 °C: 11.2 mm

Packaging:

Hobcock: 30 kg component A + 30 kg component B
 Drum: 300 kg component A + 250 kg component B
 2-component cartridge: 1.10 kg component A + 0.58 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

For best results, the surface should be abrasive blasted to remove any existing coating, followed by high-pressure water jet cleaning to remove chemical contaminants and soluble salts from the surface.

Remove all oil and grease, then abrasive blast the surface to ISO 8501-1 Sa 2½ using angular grit. 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
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 is 50 °C to 80 °C for components A and B, and 40 °C to 70 °C for the 2-component cartridge.

5. Application

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

A temperature gradient between the warm medium and the cooler steel substrate must be avoided during service.

Note: Do not use thinners. The application 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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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 Data Sheet is subject to change without notice.

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