

HEGSEL® Coat 156

High-Tech Fast-Curing Polyurethane Based Coating

You Build, We Protect!

Description:

HEGSEL Coat 156 is a two-component, liquid, solvent-free polyurethane coating based on polyol and isocyanate. The formulation of **HEGSEL Coat 156** has been developed with consideration of the technical requirements of KTW-BWGL, ÖNORM B 5014 Part 1, and AWWA C222-18. **HEGSEL Coat 156** is designed for application using a two-component airless hot-spray system and forms a dense, continuous protective layer providing excellent corrosion protection and reliable long-term durability under demanding service conditions.

Characteristics:

- Good chemical and water resistance
- Extremely rapid reaction and curing
- Rapid development of mechanical properties
- VOC-free
- Outstanding corrosion protection
- High resistance to cathodic disbondment at temperatures up to 80 °C

Application Areas:

HEGSEL Coat 156 is designed for the internal and external protection of containers, chemical storage tanks, pipelines, pipe bends, fittings, field joints, valves, and process vessels.

Application Data:

Colour	RAL 5012 (Light blue) Note: Other colours can be provided upon request, depending on technical feasibility and minimum order quantity.	
Mixing Ratio	A : B = 1 : 1 (Parts by weight / volume)	
Recommended Dry Film Thickness (DFT)	≥ 1000 µm Note: The required DFT may vary depending on the application. Please contact HEGSEL for technical guidance.	
Theoretical Consumption	~ 1.20 kg/m ² @1000 microns DFT	
Temperature	23 °C	60 °C
Pot Life	65 sec	15 sec

Technical Data:

Title	Standard	Value
Solids Content	-	100%
Density (Mix) @23 °C	-	1.20 g/cm ³
Viscosity @25 °C	-	Comp. A: 3200 mPa.s Comp. B: 800 mPa.s
Shore D Hardness	DIN EN ISO 868	1 sec: 77 ± 5 15 sec: 74 ± 5
Adhesion Strength (On Steel)	DIN EN 10290:2002	12 MPa 13 MPa (After Thermal Ageing (100 days at 23 °C))
Impact Resistance	DIN EN 10290:2002	≤ 11 J/mm (impact energy)
Elongation at Break	DIN EN 10290:2002	11%
Specific Electrical Insulation Resistance (100 days @ 23 °C)	DIN EN 10290:2002	3.8 x 10 ¹⁴ Ωm ²
Cathodic Disbondment (28 days @23 °C)	DIN EN 10290:2002	6.90 mm
Temperature Resistance	-	-30 °C to 80 °C Short term: 110 °C (no substrate temperature gradient)

Packaging:

460 kg sets: 230 kg Barrel Component A and 230 kg Barrel Component B
1.8 kg Cartridge: 0.9 kg Component A + 0.9 kg Component B

Storage:

24 months for Component A and 18 months for Component B when stored in a cool, dry place in tightly sealed original containers. Cartridges have a shelf life of 12 months in their original packaging. If Component B gels due to low storage temperatures, the precipitates can be redissolved by heating the material to 70 °C for approximately 2 hours using a heating jacket or heating plate.

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
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.

5. Application

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

The recommended processing temperature range for Component A is 70 – 80 °C and for Component B is 55 – 70 °C. For cartridge applications, the recommended processing temperature range is 20 – 70 °C.

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 BS EN 16985:2018- 12-14.

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 datasheet is subject to change without notice.

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