

HEGSEL® Coat 157

Antistatic Flame-Retardant Polyurethane Based Coating

You Build, We Protect!

Description:

HEGSEL Coat 157 is a two-component dissipative and flame-retardant polyurethane coating based on polyol and isocyanate chemistry. The product is designed for application using a 2-component airless hot-spray system and forms a continuous protective layer providing reliable corrosion protection and durable performance under demanding service conditions.

Characteristics:

- Excellent corrosion protection
- Antistatic properties (AS)
- Dissipative conductivity below 1 GΩ
- Non-flammable
- Good chemical resistance
- High abrasion resistance
- Solvent-free
- VOC: 0% (VOC-free)

Application Areas:

HEGSEL Coat 157 is suitable for the internal and external protection of tanks and containers, pipes and pipe bends, valves and fittings, as well as piling pipes.

Application Data:

Colour	RAL 9011 (Graphite black) Note: Other colours available upon request (subject to technical feasibility and minimum order quantity)
Mixing Ratio	Base : Hardener = 77 : 23 (Parts by weight) Base : Hardener = 3 : 1 (Parts by volume)
Recommended Dry Film Thickness (DFT)	≥ 1500 µm Note: The required DFT may vary depending on the application. Please contact HEGSEL for technical guidance.
Theoretical Consumption	~ 1.28 kg/m ² @ 1000 microns DFT
Pot Life (23 °C)	6 min

Note: All the provided values are approximate and should be used as guidelines for specifications.

Technical Data:

Title	Standard	Value
Solids Content	-	100%
Density (Mix) @ 23 °C	-	1.28 g/cm ³
Viscosity @ 25 °C	-	Base: 2550 mPa.s Hardener: 90 mPa.s
Shore D Hardness	-	60
Adhesion Strength (On Steel)	DIN EN 10290 / 10289:2002	12 MPa
Elongation at Break	-	13%
Abrasion Resistance	DIN EN 10290 / 10289:2002 (CS17 / 1000 g / 1000 cycles)	19 mg weight loss
Cathodic Disbondment	DIN EN 10290 / 10289:2002	1 mm (28 days @23 °C)
Temperature Resistance	-	-20 °C to 80 °C Short term: 110 °C (no substrate temperature gradient)

Note: Coating properties determined according to DIN EN 10290:2002 and DIN EN 10289:2002 are reported as typical values.

Packaging:

Base: Intermediate Bulk Container (IBC) 1000 kg / Drum 200 kg / Hobcock 30 kg
Hardener: Drum 250 kg / Hobcock 25 kg

Storage:

~ 12 months when stored in a cool, dry place in tightly sealed original containers.

1. Surface Preparation

To obtain the best results, substrate shall be clean, dry, and free from contaminants that may impair adhesion.

Surface preparation shall be carried out in accordance with relevant international standards (e.g. ISO 8501-1), depending on project requirements.

2. Environmental Conditions

Environmental Conditions	Value
Maximum Relative Humidity	≤ 80%
Substrate Temperature	min. 5 °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

Feed both components into the two-component hot spray unit, ensuring an accurate mix ratio. Do not thin or add solvents 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 and uniform film build.

The recommended processing temperature range for Base is 30 – 50 °C and for Hardener is 20 – 40 °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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