

HEGGEL® Coat 152

High-Performance Fast-Curing Polyurethane Coating

You Build, We Protect!

Description:

HEGGEL Coat 152 is a two-component polyurethane spray coating consisting of a viscous part A (Base) – a polyol, and a liquid part B (Hardener) – an isocyanate, designed for protection of Internal and external coating of equipment. **HEGGEL Coat 152** should be applied with 2-component airless hot spray system. It is solvent-free and does not contain any VOC.

Characteristics:

- Excellent corrosion protection
- Fast-curing formulation
- Temperature resistance of -20 °C to 95 °C (Short-term: 110 °C (without temperature gradient to the substrate))
- Applied with impingement gun - no solvent flushing necessary
- Rapid achievement of mechanical strength
- Easy to use
- Solvent-free

Application Areas:

The coating provides effective Internal and external corrosion protection for pipes, pipe bends, fittings, field joints and also serve as an internal lining for storage containers and tanks.

Application Data:

Colour	Graphite black - RAL 9011 Other colours are available on request.
Mixing Ratio	A : B = 1 : 1 (Parts by weight)
Consumption (Theoretical)	~ 1.2 kg/m ² @1000 µm DFT
Recommended Dry Film Thickness (DFT)	≥1500 µm Note: The required DFT may differ depending on the specific application. Please contact us for technical clarification.
Pot Life @60 °C	10 sec

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

Packaging:

50 kg (25 kg hobbock Part A + 25 kg hobbock Part B)
460 kg (230 kg barrel Part A + 230 kg barrel Part B)

Storage:

24 months for part A and 18 months for part B, when stored unopened in original drums under cool, dry conditions.

1. Surface Preparation

Prior to the application the substrate must be prepared by mechanical means using qualified equipment e. g. shot blasting in accordance with DIN ISO 12944-4 Sa 2 ½. Minimum requirements are that the surface must be stable and free of mil scale, rust, oil, fat and other contaminants.

2. Environmental Conditions

Environmental Conditions	Value
Maximum Relative Humidity	80%
Minimum Surface Temperature	5 °C
Dew Point Distance	min. +3 °C

Prior to, during and after the application the temperature of the surface must be at least +3 °C above the current dew point temperature.

3. Application Tools

HEGSEL Coat 152 must be applied exclusively using a two-component airless hot spray system.

4. Mixing

Both components must be heated and mixed in the precise ratio. The material temperature should be maintained between 75 °C and 85 °C for part A, and 65 °C to 75 °C for part B.

5. Application

Apply in multiple passes to achieve the specified dry film thickness (DFT).

Note: For repair purposes, **HEGSEL Coat 152 (Repair Grade)** is recommended to use.

6. Cleaning

It is strongly recommended to clean all equipment immediately after application with HEGSEL Cleaner.

7. Safety Measures

Regulations concerning explosion protection for the design and equipment of facilities (machines) are specified, among other sources, in the relevant harmonized European standard BS EN 16985:2018-12-14 "Spray booths for organic coating material – Safety requirements" (formerly DIN EN 12215 and DIN EN 13355). In addition, all applicable local laws and regulations must be observed.

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

Technical Data:

Title	Standard	Value
Density (Mix) @23 °C	-	1.2 g/cm ³
Viscosity @25 °C	-	Part A: 2600 mPas Part B: 800 mPas
Temperature Resistance	-	-20 °C to 95 °C Short-term: 110 °C (Without temperature gradient to the substrate)
Shore D Hardness	DIN EN ISO 868	75
Adhesion to Steel	DIN EN 10290:2002	23 MPa
Adhesion Strength	DIN EN ISO 4624	14 MPa
Adhesion after Thermal Aging	DIN EN 10290:2002	26 MPa @100 °C, 100 days
Adhesion to FBE	-	22.7 MPa
Cathodic Disbondment	ISO 21809-3	0.6 mm (28 days) @23 °C
	DIN 3476-2	4 mm (2 days) @80 °C
	ISO 21809-3	17.5 mm (28 days) @95 °C
Impact Resistance	DIN EN 10290	12 J/mm (Max. energy)
	ISO 21809-3	10 J/mm @23 °C
	ISO 21809-3	6 J/mm @-5 °C
Indentation Resistance	ISO 21809-3	17% @80 °C
		19% @95 °C
Abrasion Resistance	ASTM D4060	6 mg loss (500 r) 15 mg loss (1000 r)
Dielectric Strength	ASTM D149	31 kV/mm
Specific Electrical Insulation Resistance	DIN 3476-2	4 × 10 ¹⁰ Ω m ² @23 °C
		1.2 × 10 ⁵ Ω m ² @70 °C
Resistance to Thermal Aging (in water)	DIN 3476-2	7 MPa
Elongation at Break	DIN 3476-2	17%

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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.

HEGSEL GmbH

Hutropstr. 60
45138 Essen
Germany

Tel: +49 201 17003 270

Fax: +49 201 17003 277

E-Mail: info@heggel.de

Web: www.heggel.de