HEGGEL Coat 133

2-C-advanced Novolac-based anti-corrosion coating



You Build, We Protect!

| Description: | HEGGEL Coat 133 is a 2-component reinforcement, based on an advanced | special composite coating containing micro-ceramic particles Novolac-resin base, providing chemical resistance, corrosion |
|--------------------------|--|---|
| | and abrasion protection to a wide va | nety of substrates in extremely aggressive environments at |
| Characteristics: | Solvent-free High chemical resistance Excellent isolation properties Single coat curing at ambient temperature | Temperature resistance up to 170°C (dependent on medium) ISO 20340 (Performance requirements for protective paint systems for offshore and related structures) |
| Application: | Internal and external coating for: Storage tanks for crude oil, hydrocarbons and chemicals, special tanks for urea and bio-oils, process vessels and storage tanks with extreme temperature changes, pipelines | |
| Technical data: | for oil & gas, pressure vessels of all kin | |
| | | Light and dark Gray |
| | Finish | Silk gloss |
| | Mixing ratio | 9 : 1 by weight / 7.5 : 1 by volume |
| | Density (mix) | Approx.1.19 g/cm ³ |
| | Solids content | 100% |
| | Adhesion (ISO 4624) | >27 MPa |
| | Abrasion resistance (ASTM D 4060) | 80 mg loss |
| | Flexibility | Excellent |
| | Corrosion resistance (ISO 7253) | > 10,000 hours salt spray |
| | Chemical resistance | Excellent |
| | Seawater resistance | ISO 20340 |
| | | |
| Details for application: | Pot life | at 30 °C / 10 minutes at 40 °C material temperature *Waiting time under continuous pressure may reduce pot life! |
| | Material sprav temperature | Minimum 20 °C recommended |
| | Recommended Dry Film Thickness (D | FT) Contact HEGGEL! |
| | Number of coats | One or multiple coats, depending on specification |
| | Minimum coating thickness | 500 um |
| | Sagging limit | 1000 μm per layer at 20 °C material temperature |
| | Mixing time | Part A: Stirrup intensively by mechanical means |
| | Theoretical consumption | Approx $0.60 \text{ kg/m}^2 @500 \text{ microps DET}$ |
| | | Approx. 0.00 kg/m ² @500 microits DF1 |
| | Substrate temperature | Minimum +10 C and minimum +3 C above dew point |
| | Relative humidity of air | Maximum 85 % |
| | Recoat (wet on wet) | At 20°C: min.10 hrs. / max. 24 hrs. At 25°C: min. 8 hrs. / max. 16 hrs. At 30°C: min. 6 hrs. / max. 12 hrs. At 40°C: min. 4 hrs. / max. 10 hrs. |
| | Curing time, fully cured at 20°C / 25°C / 30°C / 40°C | Approx. 24 hours / 20 hours / 18 hours / 12 hours |
| | Curing time, Resistant to media at 20°C / 25°C / 30°C / 40°C | 7 days / 7 days / 7 days / 5 days |
| | **All above values are approximate and ma | ay be used as a guideline for specifications. |
| Packing: | 15 kg kits | |

Storage:

Approx. 24 months, unopened in original drums under dry and cool conditions below 35°C provided with adequate ventilation. Please protect against heat and freeze!

1. Surface preparation

All surfaces to be coated should be clean, dry and free from contamination. Prior to application, all surfaces should be assessed and treated in accordance with ISO 8504:2000. Remove weld spatter and smooth weld seams and sharp edges. Oil or grease should be removed according to SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning

For best adhesion results the surfaces should be prepared by abrasive blast cleaning to minimum SA 2.5 (ISO 8501-1:2007) or SSPC-SP10. A sharp, angular surface profile of R_t 75-100 µm is required. Contact HEGGEL GmbH for further information.

The coating system must be applied before oxidation of the steel occurs. If oxidation does occur the entire oxidized area should be reblasted to the standard specified above. Surface defects revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner.

Concrete Substrates

Refer to HEGGEL GmbH for specific recommendations.

2. Application method Airless spraying

Use airless pump with the gear ratio of 1:68 or higher, inlet pressure > 6 bar, tip size: 0.023-0.029"; hose length max.20 m; spray hose diameter max. $^{3}/_{4}$ ". We recommend the removal of the high-pressure filter and the direct suction of the material without use of a siphon tube.

Brush / Roller

Using brush/roller is recommended for small areas, repairs or to precoat edges. To obtain the required layer thickness, additional coating passes (wet-on-wet) may be necessary.

Note: Do not use thinners. We recommend to use HEGGEL cleaners to clean and flush equipment.

3. Health and safety

Observe the precautionary notices on the container label, and read the Material Safety Data Sheet before use. The product is intended for use by properly qualified professional applicators in industrial conditions. The product is flammable and should be kept away from sparks, open flames, and other sources of ignition. Smoking is prohibited in the application area. Wear suitable respiratory equipment and apply in well ventilated areas. Avoid contact with skin and eyes.

HEGGEL Coat 133; 0.00/06.08.2021. 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 actual 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.

HEGGEL GmbH Huttropstr. 60 45138 Essen Germany Tel: +49 201 17003 270 Fax: +49 201 17003 277 E-Mail: <u>info@heggel.de</u> Web: <u>www.heggel.de</u>