HEGGEL® Corr 222

Advanced Deep-Penetrating Laminating Resin

You Build, We Protect!

Description:

HEGGEL Corr 222 is a two-component advanced chemically resistant laminating resin formulated using high-crosslink interpenetrating polymer network technology. It is designed for effective impregnation of glass fabrics and matting reinforcements and is engineered to penetrate weak or porous concrete substrates to a minimum depth of 50 mm, enhancing surface tensile strength by at least tenfold. The system is compatible with various topcoats, including those from the **HEGGEL Corr** range as well as the **HEGGEL PTFE Lining** system. When applied in conjunction with selected glass reinforcement materials, it effectively mitigates premature crack formation within concrete substrates.

Characteristics:

- Exceptional resistance against chemicals especially acidic system
- Deep penetration into concrete
- High strength composite
- Low-viscosity resin

Application Areas:

This system is intended for use on inadequately prepared, weak, or highly porous concrete substrates requiring deep consolidation and enhanced surface integrity. It is also suitable for high-temperature, acid service conditions where the installation of a high-strength composite laminate is necessary to ensure long-term durability and to prevent the initiation and propagation of cracks.

Application Data:

Finish	Glossy		
Colour	Clear light amber liquid		
Number of Coats	1		
Practical Consumption	~ 0.20 - 0.25 kg/m^2 on 300 g glass fabric mat		
Typical Wet Film Thickness (WFT)	Not specified, as the material must fully wet out the glass fabric mat		
Temperature	**20 °C**	**30 °C**	**40 °C**
Pot Life	40 min	30 min	20 min
Tack Free / Drying Time	180 min	-	-

Technical Data:

Title	Standard	Value
Solids Content	-	100%
Density (Mix)	-	1.05 g/cm^3
Viscosity (Mix)	-	100 ± 50 mPa.s
Impact Resistance	ASTM G14	Forward: 25 Joules Reverse: 10 Joules

Packaging:

13 kg kit

Storage:

+36 months in sealed original containers under dry and cool conditions.
Protect against heat and freeze!

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.

1.1. Carbon Steel

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.

1.2. Concrete

Refer to DIN EN14879-1.
Ensure the surface is prepared properly for adequate adhesive strength. It should be dry, clean, free from any cement slurry, loose parts, defects, contaminants such as oil or grease or any substances that prevent adhesion. The residual moisture content of concrete shall not exceed 4%.
It is essential to protect the coating / lining from potential water or vapor pressure from its reverse side.

2. Environmental Conditions

Prior to the application of the coating, make sure that the temperature of surface is at least 18 °C, the temperature of the air is at least 3 °C above the dew point, and ensure the relative humidity is less than 90%. Be careful to prevent recontamination of the surface which is prepared from nearby sources.

3. Application Tools

HEGGEL Corr 222 can be sprayed onto the glass fabric using standard 60:1 ratio airless spray pump.

Glass reinforcements can be wetted out using a medium-nap, hard sponge roller or an equivalent tool.

4. Mixing

To ensure optimal performance of the product, thorough mixing is essential. Make sure both base and hardener components are kept between 20 – 25 ˚C before mixing, and always keep the materials in a shaded area before, during and after mixing. Upon opening the base tin, any substance on the lid must be added into the tin. Gradually incorporate the hardener into the base, ensuring a slow stirring motion with the power mixer. Hold the tin firmly between your feet to prevent spinning while using a power mixer.

Ensure that none of the hardener is lost. Once the entirety of the hardener has been added to the base, elevate the power mixer's speed to its maximum and proceed with this for an additional two minutes.

Do not mix quantities of material that exceed what can be used within the specified pot life.

5. Application

HEGGEL Corr 222 must fully penetrate and saturate the glass reinforcement.
Apply the top coat layer of **HEGGEL Corr 220** or **HEGGEL PTFE Lining** onto the wet glass fabric reinforcement.
If the **HEGGEL Corr 222** layer has already dried, lightly grit-blast its surface, remove all dust, and then apply a single topcoat of **HEGGEL Corr** products. For **HEGGEL PTFE Lining**, the sheet must always be applied onto the wet **HEGGEL Corr 222.**

After coating, promptly clean the spray equipment with MEK or acetone-based thinners.

6. Safety Measures

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.

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