

EPOTAR 70

Coal Tar Epoxy Coating

Description:

EPOTAR 70 is a two-part, polyamide, coal tar modified epoxy coating. It is formulated that once cured, it produces a tough, flexible, chemical and impact resistant coat membrane. It is mostly used as a protective coating to surfaces subjected to extremely corrosive environments. It acts as anticorrosive coating with its excellent chemical resistance properties in atmosphere or in contact with chemical solutions. It is suitable for structures in submerged conditions. Displays excellent weathering and resistance to salt.

Uses:

EPOTAR 70 is used in the following applications:

- Anti-corrosive coating, suitable for industrial atmosphere, immersion in salty and alkaline solutions.
- Corrosion resistant coating to storage tanks in fertilizer, petrochemically industry, refineries, cooling towers
- Can be used as tank lining in crude oil and water ballast tank, cofferdams, void spaces and others.
- As protective barrier on permanently submerged surfaces such as ship hulls, offshore structure, sheet piling steel.
- Suitable to use with submerge concrete or asbestos cement, sewerage pipes, manholes, foundation walls and sumps as a protective coating.

Advantages:

- Self-priming
- Economical and easy application by roller, brush or spray
- Excellent anti corrosion ability
- Provides good adhesion to concrete and metallic surfaces.
- Low temperature curing
- Resistance to impact, thermal shock and abrasion.
- Resistance to wide range of chemicals

Instructions for Use:

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Ensure that concrete surfaces are fully cured.

For old concrete all contaminations should be removed. Use mechanical method like grinding, captive blasting and sand blasting for preparing the surface. If the substrate is restricted to access, utilize preparation by handy mechanical tools.

Perform repairs to cracks or damaged areas by using epoxy based repair products. Cracks should be reinforced with fiber mesh with one more extra coat on mesh area.

For applications on metal surfaces, clean the surface by sand blasting or mechanical wire brush to remove rust and corrosion. Metallic surfaces should be immediately coated with EPOTAR 70 to prevent further oxidization of surface.

Mixing:

Mix the contents of component A (Base) with a low-speed mixer for two minutes to homogenize the content of the container and disperse any settlement. Slowly add the contents of part B (Hardener) to Part A container and mix the material thoroughly with low-speed mixer fitted with a suitable paddle (200-300 RPM) for an interval of 3-4 minutes confirming a homogenous, lump free mixture is reached. Scrape the sides and bottom of the container to ensure that mixture is thoroughly blended.

Application:

After mixing, allow the product to rest for 1-2 minutes to release entrapped air. EPOTAR 70 can be applied by brush, roller or spray machine, on a fully prepared application area. 5-10% of ARMOSOLVENT can be added for airless spray application using nozzles 0.21"

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– 0.25” and a working pressure of 140 to 160 bar. For brush or roller application, 5% Armosolvent can be added only if needed. Apply the material with the desired thickness. The minimum thickness of product recommended is at 150 microns DFT (dry film thickness). Applied thickness can reach 300 microns DFT per coat.

Surface must be dry before application. Product workability can vary sensitively depending on the environmental conditions and type of support therefore, coating time can be affected.

TECHNICAL PROPERTIES	
Color	Black
Density	1.35 ± 0.03 kg/lit
Volume Solid	Approx. 70%
Application Temp.	from +5°C to +35°C
Pot-life time at 25°C	3 hours
Recommended Thickness Film	150-300 microns (DFT)
Touch dry, 20°C, 65% RH	2 hours
Min. Recoating time	24 hours
Cured	7 days
Water permeability	Nil

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Coverage:

EPOTAR 70 covers approximately 7.0 m²/lit at 100 microns

*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

EPOTAR 70 is available in 15 lit kit (two components)

Storage:

Store in original packing in dry conditions away from direct sunlight and in a temperature controlled warehouse between 5°C to 40°C and relative humidity of less than 70%.

Shelf Life:

EPOTAR 70 can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

Cleaning:

Clean used tools with ARMOSOLVENT before product dries. Hardened materials can only be removed mechanically.

Remarks:

- EPOTAR 70 should not be applied over existing coatings.
- For application in hot weather, it is strongly recommended to shade the working area and to keep the equipment used cool.
- Application should not be undertaken if the temperature is below 5°C, nor when the prevailing relative humidity exceeds 90%.
- The color of the coated surface will change to brown/red if cured in a high humidity environment.
- Do not apply EPOTAR 70 on wet surfaces.
- Do not use for potable water tanks.
- Proper ventilation is needed during application in close areas.

Health and Safety:

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist. The product is flammable, keep away from sources of ignition. DO NOT SMOKE. Take precautionary measures against static discharge.

FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water

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Inhalation: Remove to fresh air, keep patient rested
Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to EPOTAR 70 Material Safety Data Sheet.

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P.O. BOX: 29585, Dubai, UAE, Tel: +971 4 333 4140, Fax: +971 4 333 4115
Email: info@matex.ae, www.matex-global.com