TECHNICAL DATA SHEET

EPOTAR 100

Solvent-Free Coal Tar Epoxy Coating

Description

EPOTAR 100 is a solvent free, high performance epoxy protective coating modified with coal tar to provide a high build system that protects concrete and metal surfaces from water and wide range of aggressive chemicals.

EPOTAR 100 is formulated from pitch extended epoxy resin with special chemical additives and hardener to give high workability coating dries to tough, flexible coating with high chemical resistance and mechanical properties.

Features & Benefits

- Solvent free, less VOC
- Excellent chemical resistance
- Low viscosity, high workability and easy to apply
- Non-blushing & non-water spotting
- Excellent bonding to metal and concrete surfaces
- High Flexibility
- Tough and abrasion resistance coating
- Anti-fungus coating

Uses

EPOTAR 100 is an anti-corrosive coating, suitable for industrial atmosphere, immersion in salty and alkaline solutions, crude oil, and for concrete sewerage pipes.
As a tank lining in crude oil and water ballast tanks, cofferdams etc.
EPOTAR 100 protects bitumen, asphalt and tar based materials from attack by fuels and oils, making it particularly suitable for use around fuel pumps and in vehicle maintenance shops.
As an outstanding protective coating on permanently submerged surfaces, ships halls, sheet piling, steel, concrete, sewer pipes, off shore structures, etc.
For concrete and steel coating in sewerage work applications. It can be applied onto the sand blasted, brushed or galvanized steel, etc.

Technical Properties

Appearance	Liquid Resin
Color	Black
Mix Density	1,350 Kg/m^3 approx.
Pot Life	60 minutes @ 25 ^oC
Bonding Strength	≥2.5 N/mm^2
Recoating time	12 hours
Final cure	5 days
Solid Content	100%
Abrasion Resistance	17mg / 1000 cycles
Slant shear bond strength	>10 MPa
Application temperature	+5 to +35 ^oC
Heat Resistance	-5 to +90 ^oC
Water Absorption	<0.01%
Chemical Resistance	Excellent

All values are subject to 5-10% tolerance

Standards Compliance

- ASTM C881, Type III, Grade 2, Class C
- ASTM D 695, D 638, D 570, D 4060
- ASTM D 2240, D 649

Application Procedures

Surface preparation:

All surfaces should be sound, clean, dry and free from loose and flaking material, efflorescence, laitance, curing compounds, dirt, oil and grease. Suitable preparation using mechanical methods like grinding or blasting in order to provide a suitable clean surface is strongly recommended. All necessary repairs should be made prior to application by using epoxy mortar. Contact SBI Technical Department for advice. In general, **EPOTAR 100** does not require priming.

Metallic surfaces must be brushed or sand blasted (in order to remove all corrosion and mill scale) and then treated with **EPOTAR 100** before the oxidation process begins again.

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Mixing Instructions:

EPOTAR 100 is composed of two components that must be mixed at the moment of use. Prior to application, stir component A (resin) and component B (hardener) separately in order to ensure mixing of all settled components for each part. Add component B (hardener) to component A (resin) and mix together for two minutes manually or using a drill at low number of turns (200-300 RPM) till obtaining a homogenous mix. The mixed components should be used immediately.

Application Instructions:

Mixture can be applied with a brush or roller in two crossed coats. For airless pump applications, the product can be diluted with maximum 10% of SOLVENT 20.
Before applying the second coat make sure that the first one is completely dry.
If slip resistance finish is required, spray the silica sand with the required sieve size onto the first coat while wet. Once cured, remove excess sand and apply the final coat.
EPOTAR 100 is generally applied as a two coats application with a thickness of 250-300 microns per coat.

Coverage

Each 1 Ltr of **EPOTAR 100** will cover 5 seq. meter in 200 microns coat thickness.

Coverage depends on substrate porosity and profile.

Packaging

EPOTAR 100 is available in 4& 15 Liters two-component Kits.

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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