MONNELI COLMEF

PROTECTIVE COATINGS

MONNELI EPOSSITAR 100 CR

High Build Solvent Free Coal Tar Epoxy Coating

Product Description

A two component solvent free epoxy polyamine coating, modified with low temperature tar. It is specially formulated for high build applications. Once cured, it produces a tough, flexible, chemical and impact resistant film.

Formulated to be easily applied, as thick as 200 microns in one coat. It provides excellent resistance to aggressive chemicals, water, acids, and alkalis.

Uses

EPOSSITAR 100 CR is used as follows:

- As an anti-corrosive coating, suitable for industrial atmosphere, immersion in salty and alkaline solutions, crude oil, for concrete sewerage pipes, and manholes
- As a tank lining in crude oil and water ballast tanks, coffer dams etc.
- To provide chemical corrosion and abrasion resistance to concrete surfaces for many application including seawater tanks, manholes, lining, channels, sewage plants, etc.
- As an outstanding protective coating on permanently submerged surfaces such as ship hulls, sheet piling, steel, concrete, sewerage pipes, off shore structures, foundation walls & sumps

Advantages

- Self-priming
- Excellent anticorrosive ability
- 100% solid content
- High build
- Low temperature curing
- Heavy duty structural coating
- Easily applied by roller, brush or spray
- Exceptional resistance to impact, thermal shock & abrasion

Instructions for Use

Surface Preparation

All surfaces must be dry, smooth, clean, sound, uncontaminated, and free from dust or loose material. Concrete surfaces must be fully cured and laitance must be removed by any suitable method.

For old concrete, all contamination must be removed and a sound clean substrate should be exposed, mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum.

Cracks should be reinforced with fibre mesh and must then be treated with epoxy mortar. Contact Colmef Technical Department for recommended products.

Mixing

Prior to application, stir component A (resin), then add component B (hardener) to it and mix thoroughly with a low speed electric drill (200 – 300 rpm) fitted with a suitable paddle to obtain a homogenous mixture.

Application

After mixing, the product is ready for brush or airless spray application. 5-10% SOLVENTE 10 may be added for airless spray application. Use nozzles of 0.21”-0.0.25” and working pressure of 140-160 bar, for brush or roller add 5% volume SOLVENTE 10 only if needed.

EPOSSITAR 100 CR is generally applied as a two coats application with a wet thickness of 200-300 micron per coat.

The hardening time vary sensitively according to environmental conditions and the type of support.

Cleaning

Tools and equipment should be cleaned with SOLVENTE 10 immediately after use. Hardened material should be removed mechanically.

Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

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Recommendations

- EPOSSITAR 100 CR should not be applied over existing coatings.
- For application in hot weather, it is strongly recommend to shade the working area and to keep the equipment used cool.
- Application should not be undertaken if the temperature is below +5^{0}C, nor when the revailing relative humidity exceeds 90%.
- Cannot be applied over after 24 hours.

Technical Data

Properties	Results
Colour	Black
Mix density at 25^{0}C	1.55 kg/L
Solid Content	100%
Recommended film thickness (DFT)	200 – 400 microns
Pot life at 25^{0}C	1 hour
Water permeability (24 hrs) At 5 bars pressure (BSEN 12390)	NIL
Bond strength (BS 1881 Pt 207)	>2.0 N / mm²
Water absorption (ASTM D 570-98)	< 0.01%
Minimum recoating time at 25^{0}C	12-16 hours
Cured at 25^{0}C	7 days
Temperature of application	from +5^{0}C to +35^{0}C
Chemical resistance Hydrochloric acid 18% Sulphuric acid 25% Nitric acid 10% Phosporic acid 10% Ammonia 15% Sodium hydroxide 25% Oils, vegetable and minerals Ferric chloride 15% Sea water Raw sewage	 Excellent Very good Very good Very good Excellent Good Excellent Excellent Excellent Very good

Consult Colmef technical department for specific chemicals. Some colour change may occur.

All values are subject to 5-10 % tolerance

Consumption

Approximately 5m²/Liter at 200 microns

Packaging

EPOSSITAR 100 CR is supplied in 40 kg and 400 kg Kit

Storage

Store generally in dry covered place with a temperature between +5^{0}C - +35^{0}C and RH below 70%. The expected shelf life of the product is 12 months from production date.

Health & Safety

Keep the product away from sources of ignition.

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment. Avoid contact with skin, eyes and inhalation of vapour. Ensure proper ventilation at working place.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

The information in this Technical Data Sheet is based on Colmef Monneli's experience. Colmef Monneli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monneli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

DUBAI
ABU DHABI
KSA
ITALY

P.O. Box 123808 Dubai UAE
P.O. Box 127326 Abu Dhabi, UAE
P.O. Box 335896 Code: 11383 - Riyadh KSA
Z.I. Ponte dÁssi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450
T. +971 2 5511949 F. +971 2 5511749
T. +966 1 2654277 F. +966 1 2654335
T. +39 75 9221297 F. +39 75 9221174

colmef@colmef.ae | www.colmef-me.com