

Techno Tar

High performance tar extended epoxy resin coating

Uses

To provide corrosion protection to concrete and metal structures in aggressive environments. The material is particularly useful and economic in tanks above and below ground, pipelines, foundation waterproofing and in dirty water situations such as sewage works.

Advantages

High film build in a single application. Easily applied by brush or airless spray. Provides long term protection. Chemical and abrasion resistant.

Description

Techno Tar a thixotropic, tar extended, two pack epoxy formulation, containing inert, reinforcing fillers and special blend of solvents. It is supplied in pre-measured quantities ready for site mixing and use.

Design criteria

Techno Tar is designed to be applied in two coats to achieve a minimum total dry film thickness of 350 microns. To achieve the protective properties of the product, Techno Tar must be applied at the coverage rates recommended.

Properties

Volume solids 70%

Pot life

@ 20°C 8 hours

@ 35°C 3 hours

The fully cured coating is resistant to:-

Water, Saturated sodium chloride, Sewage water, Dilute mineral acids and alkalis, salt solutions. The local M.T.C. office should be consulted for resistance to specific chemicals and conditions.

Specification clauses

Corrosion, chemical and abrasion resistant lining. The corrosion, chemical and abrasion resistant coating shall be Techno Tar, a high build, solvent containing, tar extended two pack epoxy material, specifically designed to provide a tough, impermeable and resistant film.

Application instructions

Preparation

Concrete surfaces

All surfaces must be dry, smooth, sound and free from debris and loose material. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth.

Steel surfaces

All surfaces should be grit blasted to meet the requirements of BS 4232, First Quality. The coating works should be programmed so that the newly cleaned steel is coated as soon as possible to avoid the formation of corrosion deposits.

Mixing

The contents of the base can should be stirred thoroughly to disperse any settlement which may have occurred during transit and / or storage. The entire

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contents of the hardener can should be added to the base container and mixed thoroughly until a uniform colour and consistency are obtained.

Application

Number of coats	2
Over coating times	
@5°C:	16-96 hours
@20°C:	16-72 hours
@35°C:	16-48 hours
Fully cured -	
@ 5°C	14 days
@ 20°C	7 days
@ 35°C	4 days

The minimum application temperature is 5°C.

All surfaces to be protected should receive at least two coats of Techno Tar. The first coat should be applied by brush or airless spray to achieve a uniform coating with a wet film thickness not less than 220 microns.

This coat should be allowed to dry for 16 hours at 20°C. The second coat should be applied as above, again achieving a wet film thickness not less than 220 microns.

Cleaning

Techno Tar should be removed from tools and equipment with Techno solvent immediately after use. Cured material can only be removed mechanically.

Coverage

Techno Tar 1.3 m²/kg @ 350 microns dft.

The coverage figure is theoretical - due to wastage factors and the variety and nature of substrates, practical coverage figures may be substantially reduced.

Storage

Shelf life

All products have a shelf life of 12 months if kept in a dry store between 5°C and 30°C in the original unopened containers.

Storage conditions

Store in dry conditions at temperatures between 5°C and 30°C in the original, unopened containers.

If stored at high temperatures the shelf life may be reduced.

Health and safety

Techno Tar contains coal tar pitch and is flammable. Harmful Possible risk of irreversible effects in contact with skin. Avoid contact with skin and eyes and inhalation of vapor.

Ensure adequate ventilation. If working in confined areas, then suitable respiratory equipment must be worn.

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