



Nitocote ET550

Tar extended epoxy resin coating

Uses

To provide protection to concrete and metal structures, viz. marine structures, pipe lining & coating, sheet piling, industrial coating in power plants, oil & gas refining plants, sewage treatment plants, effluent plants, channels, culverts, tank foundations, below ground protection for concrete & metal structures etc.

Advantages

- High film build in a single application
- Easily applied by brush, roller and airless spray
- Provides long term protection

Description

Nitocote ET550 is a thixotropic, tar extended, two pack epoxy formulation, containing inert, reinforcing fillers and a special blend of solvents. It is supplied in pre-measured quantities ready for site mixing and use.

Design criteria

Nitocote ET550 is designed to be applied in two coats to achieve a dry film thickness of between 200 to 350 microns.

Specification

Corrosion, chemical and abrasion resistant lining

The chemical and abrasion resistant coating shall be Nitocote ET550, a high build, solvent containing, tar extended two pack epoxy material, specifically designed to provide a tough, impermeable and resistant film.

Properties

Specific gravity	:	1.35-1.45
Colour	:	Black
Volume solids	:	Min 70%
Solids by weight	:	Min 83%
Touch Dry	:	6-7 hours @ 23°C 3-4 hours @ 35°C
Full Cure	:	7 days @ 23°C 5 days @ 35°C
Overcoating times	:	Min Max
23°C	:	24 hours 96 hours
35°C	:	15 hours 72 hours
45°C	:	10 hours 24 hours

The fully cured coating

is resistant to	:	Water
	:	Saturated sodium chloride
	:	Sewage water
	:	Dilute mineral acids and alkalis
	:	Salt solutions

The local Fosroc office should be consulted for resistance to specific chemicals and conditions.

Instructions for use

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. Concrete surfaces must be fully cured, laitance free and free from any traces of Shuttering, release oils and curing compounds.

All surfaces should then be prepared to remove all foreign matter, surface laitance and provide a suitable key for Nitocote ET550.

All blow holes and imperfections should be filled with Nitomortar FC[®] or Nitomortar FCB[®]. Consult separate data sheet for pot life and overcoating time.

Steel surfaces

All surfaces should be prepared to meet the requirements of BS 4232, First Quality or SA2[^] and to achieve a blast profile of 50 - 75 microns.

The lining work should be programmed so that newly cleaned steel is coated as soon as possible before the formation of mill scale

Mixing

The contents of the base can should be stirred thoroughly to disperse any loose settlement. The entire contents of the hardener can should then be added to the base container and mixed thoroughly until a uniform colour and consistency are obtained, taking particular care to scrape the sides and bottom of the container. It is recommended that mechanical mixing be employed using a heavy duty, slow speed electric drill, fitted with Fosroc Mixing Paddle (MRS).

Application

The minimum application temperature is 5°C. All surfaces should be treated with at least two coats of Nitocote ET550.

Nitocote ET550

The first coat should be applied by brush, roller or airless spray to achieve a uniform coating with a minimum wet film thickness of 200 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 minimum wet film thickness of 200 microns.

When using airless spray equipment, a nozzle pressure of 2000 psi (140 bar) and a nozzle orifice of 0.031 inch are required at 20°C.

Cleaning

Nitocote ET550 should be removed from tools and equipment with Fosroc Solvent 102* immediately after use. Cured material can only be removed mechanically.

Limitations

- Nitocote ET550 should not be applied over existing coatings.
- Application should not be undertaken if the temperature is below 5°C, or is 5°C and falling, nor when the prevailing Relative Humidity exceeds 90%.
- The surface temperature must be at least 3°C above the dew point at all times to prevent moisture condensation.
- Nitocote ET550 is not colour stable when exposed to direct sunlight, nor when in contact with some chemicals.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Estimating

Supply

Nitocote ET550 : 18 litre packs

Fosroc Solvent 102 : 5 litre cans

Coverage

Nitocote ET550 : 5 m²/litre/coat
@ 200 microns wft

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

Storage

Shelflife

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 will be reduced.

Precautions

Health and safety

Nitocote ET550 contains coal tar pitch and is flammable.

Possible risk of irreversible effects if contact with skin.

Avoid contact with skin and eyes and inhalation of vapour.

Ensure adequate ventilation. If working in confined areas, then suitable respiratory equipment must be worn. Some people are sensitive to resins and solvents. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin-removing cream, followed by soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

Fire

Nitocote ET550 and Fosroc Solvent 102 are flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO₂ or foam. Do not use a water jet.

Flashpoints

Nitocote ET550 : 26°C

Fosroc Solvent 102 : 33°C

For further information, refer to the Product Material Safety Data Sheet.



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