Nitocote® EPW100

constructive solutions

Water dispersed epoxy coating and sealer

Uses

Nitocote EPW100 coating provides a pigmented sealing coat onto cementitious and concrete surfaces providing dustproof, easily cleanable and resistant to penetration of oils and liquids. The cured film is resistant to corrosion, chemicals and abrasion. Suitable for application to reservoirs, tanks, ducts, silos, water treatment works, breweries, dairies, kitchens and food processing plants. The cured film forms a waterproof barrier and is non-toxic.

Also recommended as internal waterproof coating.

Advantages

- Improves the resistance of concrete to many industrial chemicals.
- Hygienic - easily cleaned due to impervious finish.
- Water based - all tools and equipment can be cleaned with water.
- Economic and easy to apply.
- Attractive - available in a range of colours.
- Antifungal - resistant to fungal attack.

Description

Nitocote EPW100 is a three component prepacked, water dispersed epoxy resin system supplied ready for onsite mixing and use.

The cured film forms a hard, flexible, matt seal to concrete and other substrates.

Technical support

Fosroc offers technical support service to specifiers, end users and contractors, as well as onsite technical assistance in locations all over the country.

Properties

Mixed density	1.33 to 1.35 g/cc	
	@20°C	@30°C
Usable life	2 hrs	1 hr
Time between coats	Within 24 hrs	Within 16 hrs
Initial hardness	30 hrs	24 hrs
Full cure	21 days	21 days

Note : After the usable life has expired, the material although not hardened, increases in viscosity and the characteristics of the product change. Excess material should be discarded after this point.

Chemical resistance

Samples of Nitocote EPW100 coating have been subjected to constant immersion at 30°C for 3 months in the following chemicals and have been found to be unaffected.

Dilute Sulphuric acid
Dilute Citric acid
Dilute Sodium Hydroxide
Ammonia 10% solution
Oil and grease
Petrol
Tap water

Good housekeeping is essential in areas where chemical spillage is likely to occur. It is especially important that such spillage should not be allowed to dry as higher concentrations of chemicals are involved.

Where chemicals at higher temperatures are involved , Fosroc shall be contacted.

Application instructions

Preparation

Surfaces to be treated should be clean and free from all contamination. Oil or grease should be removed by suitable means, followed by washing off with clean water. Excess laitence should be removed by etching with Reebaklens followed by washing off with clean water.

Mixing

The colour paste component of Nitocote EPW100 coating system shall be added to the hardener component and then stirred for a period of 3 minutes followed by addition of base. The resultant mix is further mixed for a period of 2 - 3 minutes. The use of a slow speed drill fitted with a paddle is recommended.

Coating

The mixed Nitocote EPW100 coating shall be applied to the prepared and cleaned surface, using a brush or lambswool roller. ensuring that the area is completely coated and that 'ponding' of the material does not occur as water may be trapped and the material will not cure completely.

The second coat may be applied as soon as the first coat has initially dried. The time will be dependant on the type of surface and ambient conditions but will be in the range of 24 hours at 30°C.

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Temperature limitations

Minimum application temperature is 20^0C.

Estimating

Packaging and coverage

Nitocote EPW100 is supplied in 4 litre packs.

The coverage of Nitocote EPW100 coating depends to a large extent on the substrate and site conditions. For calculation purpose 20 - 22m^2 /pack /per coat @ 180 microns WFT (100 microns DFT) can be taken as the coverage.

Storage

Nitocote EPW100 coating should be stored under normal warehouse conditions, and must be protected from frost.

Shelf life

6 months in unopened containers.

Precautions

Health & Safety instructions

Since some people are sensitive to epoxy resins, gloves, goggles and barrier creams should be used when handling these products. If contact with skin occurs, it must be removed, before it hardens, with resin removing creams followed by washing with soap and water. Solvent should not be used. The use of goggles is recommended but should accidental eye contamination occur, washing thoroughly with plenty of water and seeking immediate medical treatment is suggested.

Fire

Nitocote EPW100 coating is non-flammable.

Additional information

Fosroc manufactures a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete. This includes repair mortars, fluid micro concretes, chemical resistant epoxy mortars in addition to comprehensive package of protective coatings. In addition, a wide range of complementary products are available. This includes admixtures, joint sealants, waterproofing membranes, grouts and anchors specialised flooring materials and bonding agents.

Separate data sheets are available on these products

Important note :
Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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