

Nitobond® EP

Epoxy Resin Concrete Bonding Agent

Uses

For bonding new cementitious materials to existing cementitious surfaces. For use on horizontal surfaces and on vertical surfaces where mortar on concrete can be supported by formwork.

Ideal for extensions and repairs to concrete in factories, loading bays, trucking aisles, bridges, roads, bonded or granolithic floor toppings, etc.

Advantages

- Can be applied to dry or damp surfaces
- High mechanical strength
- Good positive adhesion
- Special slow set hardener available

Description

Nitobond EP is based on solvent-free epoxy resins containing pigments and fine fillers. It is supplied as a two part material in pre-weighed quantities ready for on-site mixing and use.

Coloured components, white Base and green Hardener, provide visual evidence that adequate mixing is achieved.

Properties

	Standard at 20°C	Slow Set at 20°C
Pot Life :	35-45 minutes	5-6 hours
Initial Harness	24 hours	48 hours
Full Cure:	7days	7days
Maximum Overlay Time :	90 minutes	24 hours
Below 20°C the rate of cure will be slower		
Minimum Application Temperature :	5°C	

Compressive Strength : 50 N/mm²

Ftflexural Strength : 35 N/mm².

Tensile Strength: 20 N/mm²

Shear Strength : 25 N/mm²

Adhesive Strength to concrete: In general the bond will always exceed the tensile strength of the concrete.

Instruction for uses

Preparation

All surfaces to be treated should be mechanically prepared (scabble or grid-blast) to expose aggregate and all debris and dust removed.

Where surfaces are contaminated with oil or grease, removal with a chemical degreaser followed by water or steam cleaning will facilitate and minimise subsequent mechanical preparation.

Mixing

The entire contents of the hardener tin should be poured into the resin container and the two materials thoroughly mixed until a uniform colour is obtained.

To facilitate application at temperature below 20°C the separate components should be warmed in hot water to a maximum of 25°C before mixing. However, the mixed material will need to be used speedily as the pot life will be reduced to 20 minutes.

Alternatively the materials should be stored in a heated building and only removed immediately before use.

Coating

When mixed, Nitobond EP should be brush or spray applied to the prepared surface. The new concrete or screed should be applied to the Nitobond EP within 1½ hours at 20°C, or within 1 hour at 30°C.

Nitobond® EP

Slow Set System

Nitobond EP can be supplied with a special slow curing hardener, to allow for application prior to the fixing of shuttering or reinforcement. The concrete or screed can then be placed up to 24 hours after the application of Nitobond EP slow set. However, it should be left for 1 hour before topping is applied.

Cleaning

Tools and equipment should be cleaned with FOSROC SOLVENT 102 immediately after use.

Precautions

Health and Safety

Nitobond EP and FOSROC SOLVENT 102 should not come into contact with skin and eyes or be swallowed. Avoid inhalation of vapours and ensure adequate ventilation.

Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye/face protection, Barrier creams, such as Kerodex Antisolvent or Rozalex Antipaint provide additional skin protections.

Should accidental skin contact occur remove immediately with a resin removing cream such as Kerocleanse Standard Grade Skin Cleaner Rozaklens industrial Skin Cleanser, followed by washing with soap and water - DO NOT use solvent.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed seek medical Attention Immediately - DO NOT induce vomiting

For further information see Product Material Safety Data sheet.

Flash Point

FOSROC SOLVENT 102	33°C
NITOBOND EP Slow Set	Flammable



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Important note

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Storage

12 months minimum shelf life if stored below 35°C

Packaging and Coverage

Industrial Pack 4.5 kg. Theoretical coverage 10-11.5 m².

These figures are for guidance only. Actual coverage will depend on the texture and porosity of the surface being covered.

IMPORTANT : Unless otherwise specified, Nitobond EP is supplied with the standard hardener. Where the slow set hardener is required, care should be taken to ensure this is specifically requested.

FOSROC SOLVENT 102 5 litre can

FOSROC ACID ETCH 20 litre pail

Supply

Contact your local FOSROC Office or Representative

Technical service

FOSROC provides a technical advisory service supported by a team of specialists in the field.

Additional information

Nitobond EP is part of a wide range of adhesives, repair mortars, sealing components and protective coating products specially designed and manufactured by FOSROC for the construction industry.

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