



NITOBOND ECP

High build and high solid epoxy adhesive compound

Uses

Nitobond ECP is specially formulated epoxy resin adhesive to bond prefabricated elements such as bridge segments, joint precast concrete, etc.

Advantages

- Excellent adhesive
- Fast cure
- Chemical resistance
- Easy to use
- Damp tolerant

Description

Nitobond ECP is an epoxy resin based products with special fine fillers. The components differ in colour thus allowing visual assessment of mixing.

Properties

- Colour : Grey
- Density (kg/m³) : 1920
- Pot life (mins) : 120 at 25°C
- Compressive Strength (N/mm²)

1 day	70
3 days	80
7 days	90
- Tensile Strength (N/mm²)
BS 6319 part 7, 1985

7 days	30
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- Flexural Strength (N/mm²)
BS 6319 part 3, 1990

7 days	50
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- Bond Strength (N/mm²)
BS 6319 part 4 :

7 days	40
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(failure on concrete)
- Modulus Elasticity 1500 (N/mm²)

Instruction For Use

Surface preparation

Concrete should be mechanically sound, and free from oil or grease, laitance and dust. A dry grit blast surface is recommended for optimum adhesion.

Mixing

The contents of hardener should be added to the base can and mixed for five minutes (minimum) with a paddle and slow speed heavy duty drill, ensuring the side are scraped down. A uniform grey colour should be obtained.

Application

Precast Element

The mix adhesive should be applied at the required thickness to both minimum 1 mm or 2 mm on one face faying surfaces with a serrated trowel or other suitable spreader or hand applied application. Vertical application maximal 3 mm in one applied.

Cleaning

All tools and equipment should be cleaned immediately after use with Fosroc Solvent 102. Spillage should be absorbed with sand or saw dust and disposed in accordance with local regulations.

Packing

5 kg packs containing hardener and base

Storage

At least 12 months if stored below 35° C in unopened containers.

Precautions

Fire

Fosroc solvent 102 is flammable. In the event of fire extinguish with CO₂ or foam.

Health and Safety

Nitobond ECP : contains resins, which may cause sensitization by skin contact. Avoid contact with skin and eyes and inhalation of vapour.

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 advise. If swallowed seek medical attention immediately, do not induce vomiting.

Fosroc solvent 102 : Flammable Liquid
Flash Point 33° C

Keep away from sources of ignition – no smoking, wear suitable protective clothing, gloves and eye/face protection.
Use only in well ventilated areas.

Additional Information

Nitobond ECP is part of wide range of adhesives, repair materials, sealing and waterproofing compounds, grouts and flooring products manufactured by Fosroc for the construction industry.

NITOBOND ECP

PT. Fosroc Indonesia

Jl. Akasia II Blok A8 No.1
Delta Silicon Industrial Park
Lippo Cikarang
Bekasi 17550
Indonesia

telephone:
+ 62 21 897 2103

fax:
+ 62 21 897 2107

email:
indonesia@fosroc.com

Registered Office: Jl. Akasia II Blok A8 No.1, Delta Silicon Industrial Park, Lippo Cikarang, Bekasi 17550, Indonesia

www.fosroc.com