



Fosroc Nitobond TM

Solvent free, two part epoxy resin adhesive to fix traffic markers and road studs.

Uses

Nitobond TM is a high strength adhesive primarily designed to fix traffic markers and road studs. It can be used as a fast set epoxy paste to fill cracks, holes and imperfections in concrete surfaces.

Advantages

- Rapid adhesive strength development
- Easy to use
- Simple mixing minimises waste
- High tensile and shear strengths

Standards compliance

Nitobond TM conforms to the physical requirements of AASHTO M237, Type II, Slant Shear, Bond Strength & Gel Time.

Description

Nitobond TM is an easily worked medium viscosity adhesive based on 100% reactive, solvent free epoxy resin. It is supplied in two packs to be mixed at site at 1:1 ratio. Component A is pigmented white and component B is black; when mixed correctly turns uniform in grey color and bonds readily to asphalt and concrete surfaces.

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.

Properties

Bond strength to concrete (3 hrs @ 25°C) : greater than the tensile strength of concrete

Bond strength to asphalt (2 hrs @ 25°C) : greater than the tensile strength of asphalt

Specific gravity @ 25°C :

- Part A 1.45

- Part B 1.50

| Temperature °C | Pot life (Mins) | Setting Time (Mins) |
|----------------|-----------------|---------------------|
| 6 | 70 - 90 | 160 - 170 |
| 12 | 50 - 70 | 120 - 130 |
| 16 | 40 - 60 | 80 - 90 |
| 20 | 25 - 30 | 40 - 60 |
| 25 | 10 - 15 | 25 - 30 |
| 30 | 8 - 11 | 15 - 18 |

Note : Pot life and set time will vary considerably depending on temperature and size of mix; extending at lower temperatures and smaller thickness of application. Pot life and set time are determined using mix 200 g in weight.

At temperatures above 25°C the material workability increases as does the rate of strength development. At temperatures lower than 25°C the material workability decreases and strength development slows.

Application instructions

Preparation

Clean the surface and remove any dust, unsound material, grease and oil. The surface should be clean and free from contamination. Ceramic road studs or markers which are supplied with either resin rich, waxy or greasy finishies should be abraded before use.

Mixing

Equal quantities of each component should be scooped from the tins and mixed together thoroughly in a pliable polythene beaker or disposable unwaxed cardboard carton with a spatula or palette knife. To avoid waste, only sufficient material for the work in hand should be mixed.

Application

The mixed adhesive should be applied to the area to be covered by the marker and the marker pressed into place so as to squeeze out a small bead of adhesive around the entire periphery of the marker. The required amount of adhesive is normally in the range of 15-30 ml. Markers should not be fixed until at least two weeks has elapsed from the time of laying asphalt, unless written approval is given by the engineer.

Cleaning

Tools should be cleaned with Fosroc Solvent 102 immediately after use. Hardened material will have to be mechanically removed.

Fosroc Nitobond TM

Estimating

Supply

| | | |
|---------------------------|---|--------------------------|
| Nitobond TM | : | 7.56 litre pack |
| Fosroc Solvent 102 | : | 5 & 200 litre containers |

Coverage

| | | |
|--------------------|---|------------------|
| Nitobond TM | : | 15 to 30 ml/stud |
|--------------------|---|------------------|

Storage

All products have a shelf life of 12 months if kept in a dry store in the original un-opened packs.

Precautions

Health and safety

Some people are sensitive to epoxy resins so gloves and a barrier cream, kerodex 7, rozalex g, debba-wet work or similar, should be used when handling these products.

If contact with the resin occurs, it must be removed, before it hardens, with a resin removing cream such as kerocleanse 22, and rozalex 42, follow by washing with soap and water.

Do not use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately.

Ensure good ventilation and do not smoke during use.

Fire

Nitobond TM is non-flammable.

Fosroc solvent 102 is flammable. Ensure adequate ventilation and do not use near naked flame.

Flash point

Fosroc solvent 102 : 33°C

Disposal

Spillages of component products should be absorbed onto earth, sand or other inert material and transferred to a suitable vessel.

Disposal of such spillages or empty packaging should be in accordance with local waste disposal authority regulations.

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

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



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Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.**

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