Fosroc®
Nitomortar® AP (NZ)

FOSROC constructive solutions

Multi purpose, epoxy adhesive repair paste, also used as an adhesive for Nitofill LV system and Expoband F bandage system

Uses

For speedy and permanent patching repairs to concrete structures; bonding of precast concrete components and repair work to cementitious substrates where strength, impermeability to water, and resistance to aggressive chemicals is essential; emergency repairs to concrete structures and industrial floors in chemical handling and process areas.

The products' chemical resistance and thixotropic nature make it an ideal material for embedding Expoband F into sewerage tanks, water tanks and other movement joint applications.

The thixotropic nature of Nitomortar AP (NZ) makes the product ideal for setting starter bars, dowels, holding down bolts and anchoring in general. Nitomortar AP (NZ) is also used as an adhesive for Nitofill LV crack injection system.

Advantages

- Excellent resistance to abrasion and impact
- Unaffected by a wide range of acids, alkalis and industrial chemicals
- Two pack colour coding gives visual check on correct mixing
- Pre-weighed quality controlled materials ensure consistency and reduce risk of site errors
- Complies to AS4020 - suitable for use in drinking water
- Can be used on saturated surface dry (SSD) concrete
- Excellent slump resistance

Description

A versatile two-component, epoxy paste consistency, structural adhesive/filler. It cures, with minimal shrinkage, at temperatures above 5°C to a very strong, dense solid.

The mixed material is applied to a suitably prepared surface and quickly cures to form a complete impermeable repair unaffected by many forms of chemical attack.

It is supplied as a two pack colour coded material in pre-weighed quantities ready for on-site mixing and use.

Standards Compliance

Nitomortar AP (NZ) has been tested to comply with AS4020:2018. Refer to AWQC Report 398266.

Copies of the report are available on the Fosroc website.

Properties

Data quoted is typical for this product but does not constitute a specification.

Mix ratio by volume	2 parts base : 1 part hardener
Pot life:	30-60 minutes
Full cure:	7 days @ 20°C. Below 20°C, curing time will be increased
Minimum application temperature:	5°C
Maximum service temperature:	50°C
Colour:	Grey, when mixed (may yellow / darken when exposed to sunlight or certain chemicals
Tensile Strength:	15 MPa
Flexural Strength:	30 MPa @ 7 days
Compressive Strength:	69 MPa @ 28 days

Application Instructions

Preparation

All grease, oil, chemical contamination, dust, laitance and loose concrete must be removed by scabbling or light bush hammering to provide a sound substrate.

Concrete must be at least 7 days old prior to treatment.

Steel surfaces should be grit blasted to white metal. Surfaces showing any traces of oil must be degreased with a chemical degreaser prior to grit blasting.

Mixing

For best results, ensure the components are between +5°C and + 29°C prior to mixing. Premix both components separately to a homogenous consistency. Place the correct proportion of Base Component and Hardener Component into a clean container with flat wall and bottom. It is recommended where possible to always use whole units.

Mix thoroughly for a minimum of 3 minutes using a low speed drill (450-600 rpm) and a mixing paddle. Keep the paddle below the surface material to avoid entrapment of air. After 3 minutes, carefully scrape the sides and bottom to ensure thorough mixing, then continue to mix for a further 2 minutes until a uniform light grey colour is achieved. Thorough mixing of both components is important to obtain optimum results. Mix only the amount of material that can be used within the pot life.

Mixing part packs

It is recommended that full packs be mixed, however for applications where smaller quantities of product are required, experienced applicators may elect to mix part packs using the mix ratio shown in the Properties section of this document. In doing so the contractor accepts the risk of any off-ratio mixing.

Fosroc®
Nitomortar® AP (NZ)

Application

As an adhesive paste / patching repair mortar

When applying as a thin layer adhesive use a spatula or notched spreader or trowel. When applying as a repair mortar use a trowel or gloved hand to a smooth finish. Ensure good contact with the surface is achieved. On vertical surfaces maximum layer thickness is 15-20mm to prevent slumping. To avoid potential shrinkage caused by exotherm the maximum layer thickness per application is 40mm

As an adhesive used with Expoband F

Refer to current Expoband F Technical Data Sheet for complete Installation Instructions.

Cleaning

All tools and equipment should be cleaned immediately after use with Fosroc Solvent 10. Hardened material can only be removed mechanically.

Supply

Nitomortar AP (NZ): 3 litre and 15 litre 2 component packs	
Nitomortar AP (NZ) Base of 3 litre pack:	FC320469-2L
Nitomortar AP (NZ) Hardener of 3 litre pack:	FC320470-1L
Nitomortar AP (NZ) Base of 15 litre pack:	FC320469-10L
Nitomortar AP (NZ) Hardener of 15 litre pack:	FC320470-5L
Fosroc Solvent 10 4 litre:	FC600800-4L
Fosroc Solvent 10 20 litre:	FC600800-20L

Coverage

Each mixed litre of Nitomortar AP (NZ) will cover 1m² at 1mm thick.

Storage

Nitomortar AP (NZ) has a shelf life of 24 months from date of manufacture if kept in a dry, cool store in the original, unopened packs.

Parchem Construction Supplies Pty Ltd
1956 Dandenong Rd Clayton Vic 3168
Ph: 1800 812 864
www.fosroc.com.au ABN 80 069 961 968

Distributed in New Zealand by: Concrete Plus Ltd
150 Hutt Park Road Gracefield Ph: 0800 657 156
www.fosroc.co.nz NZBN 9429033691282