Fosroc®
Nitomortar® AP

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, potable water tanks and high movement joint applications.

The thixotropic nature of Nitomortar AP makes the product ideal for setting starter bars, dowels, holding down bolts and anchoring in general. Nitomortar AP 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
- Potable water approved to AS4020.2018
- Pre-weighed quality controlled materials ensure consistency and reduce risk of site errors
- Can be used on saturated surface dry (SSD) concrete
- Excellent slump resistance up to 15mm thick

Standards Compliance

Nitomortar AP has been tested in conjunction with Expoband F to comply with AS4020:2018. Refer to AWQC Report 312170.

Copies of the report are available on the Fosroc website.

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.

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: (3 litre mix at 25°C)	60 minutes
Initial hardness:	5 hours @ 20°C
Full cure:	7 days. Below 20°C, curing time will be increased
Minimum application temperature:	5°C
Maximum service temperature:	50°C
Specific gravity (mixed):	1.7 (approx.)
VOC content:	7g / litre
Colour:	Grey, when mixed (may yellow / darken when exposed to sunlight or certain chemicals
Flexural Strength: (AS1012.11-2000)	44 MPa @ 7 days
Compressive Strength: (AS1012.9-1999)	1 day - 66 MPa 3 days - 67 MPa 7 days - 78 MPa
Adhesion to concrete (dry):	>2.0 MPa (concrete cohesive failure) Exceeds tensile strength of concrete
Adhesion to concrete (SSD):	>2.0 MPa (concrete cohesive failure) Exceeds tensile strength of concrete

Chemical resistance

Hydrochloric Acid 10%	Excellent
Hydrochloric Acid 20%	Excellent
Hydrochloric Acid 30%	Very Good
Citric Acid 10%	Excellent
Tartaric Acid 20%	Excellent
Sodium Hydroxide 30%	Very Good
Diesel Fuel/Petrol	Excellent
Sulphuric Acid 10%	Excellent
Sulphuric Acid 50%	Very Good
Lactic Acid 10%	Excellent
Phosphoric Acid 50%	Very Good

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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 14 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

Thoroughly mix resin (white) and curing agent (black) until an even grey colour is obtained. Mix for minimum 3 - 5 minutes.

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.

Application

As an adhesive paste / patching repair mortar

Apply the mixed Nitomortar AP with a notched trowel, putty knife, caulking gun, depending upon the application. Bonded surfaces should be held rigidly together until the Nitomortar AP has set.

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: 3 litre and 15 litre 2 component packs	
Nitomortar AP Base of 3 litre pack:	FC320467-2L
Nitomortar AP Hardener of 3 litre pack:	FC320468-1L
Nitomortar AP Base of 15 litre pack:	FC320463-10L
Nitomortar AP Hardener of 15 litre pack:	FC320464-5L
Fosroc Solvent 10 4 litre:	FC600800-4L
Fosroc Solvent 10 20 litre:	FC600800-20L

Coverage

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

Storage

Nitomortar AP Base has a shelf life of 12 months from date of manufacture if kept in a dry, cool store in the original, unopened packs.

Nitomortar AP Hardener has a shelf life of 6 months from date of manufacture if kept in a dry, cool store in the original, unopened packs. Slump resistance properties will begin to diminish after this time.

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