

Nitomortar AP

Multi purpose, epoxy adhesive repair paste, also used as an adhesive for Nitofill LV, and Emer-Band bandage systems

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 Emer-Band 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 AS4020.2005
- 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 15 mm

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.

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.)
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
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):	Min 2.0 MPa (cohesive failure) Exceeds tensile strength of concrete

Adhesion to concrete

(SSD): 2.0 MPa (cohesive failure)
Exceeds tensile strength of concrete

INSTRUCTIONS FOR USE

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.

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 Emer-Band (a hypalon rubber jointing material)

Refer to current Emer-Band Technical Data Sheet for complete Installation Instructions.

CLEANING

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

ESTIMATING

SUPPLY

3L & 15L pack sizes are available.

STORAGE

Nitomortar AP has a shelf life of 12 months when stored in a dry place below 35°C in unopened containers.

ADDITIONAL INFORMATION

Parchem provides a wide range of complementary products which include:

- concrete repair – cementitious and epoxy
- grouts and anchors – cementitious and epoxy
- waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- waterstops – pvc and swellable
- joint sealants – building, civil and chemical resistant
- industrial flooring systems – cementitious and epoxy
- architectural coatings
- filler boards – swellable cork, bituminous and backing rod
- ancillary products

For further information on any of the above, please consult with your local Parchem sales office.

IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

PRODUCT DISCLAIMER

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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