Fosroc® Nitomortar 903

Technical Data Sheet

Solvent free, general purpose, epoxy binder system

Uses

For combining with selected fillers and aggregates to produce epoxy mortars of various consistencies. Also used as supplied, or with selected filler additions to produce bolt or starter-bar grouts, and as a priming system with some Durafloor epoxy flooring products.

Advantages

- Early development of initial hardness, minimises maintenance disruption
- Unaffected by a wide range of acids, alkalis and industrial chemicals
- Up to 90MPa compressive strength - depending on mix consistency
- Versatile mixing consistencies for a wide range of applications

Description

Nitomortar 903 is a two-component, low viscosity, epoxy resin system to which Nitomortar Fillers can be added to produce epoxy mortars having a variety of consistencies. Nitomortar 903 also forms part of the Durafloor epoxy flooring range as a priming system.

Technical support

Parchem offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Parchem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Design criteria

A variety of consistencies can be obtained when Nitomortar Fillers are used in conjunction with Nitomortar 903. Refer to Application instructions for details on mix designs.

Properties

The following results were obtained at a temperature of 23°C, unless otherwise specified.

Pot life:	30 minutes
The pot life quoted refers to the resin system without addition of fillers. This value will increase as filler is added to mixed product or if the mixed product is poured into thin layers.	
Initial hardness:	24 hours
Full cure:	7 days; below 20°C the curing time will be increased
Minimum application temperature:	5°C
Maximum service temperature:	60°C
Specific gravity (mixed):	1.1
Chemical resistance:	
Citric Acid 10%	Excellent
Tartaric Acid 10%	Excellent
Acetic Acid 5%	Satisfactory
Nitric Acid 25%	Good
Hydrochloric Acid 25%	Excellent
Sulphuric Acid 50%	Very Good
Sodium Hydroxide 50%	Excellent
Diesel Fuel/Petrol	Very Good
Sugar Solutions	Very Good
Lactic Acid	Very Good
Hydrocarbons	Very Good
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.

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

Priming

For maximum adhesion of heavily filled mortars, etc., the surfaces to be treated should be primed by applying a coat of unfilled Nitomortar 903 before placing the mortar.

Mixing

By volume – 2 volumes of resin to 1 volume of hardener

By weight – 100 parts of resin to 45 parts of hardener

Cleaning

Nitomortar 903 should be removed from tools, equipment and mixers with Solvent 10 immediately after use.

Estimating

Supply

Nitomortar 903:

481015	1.5L Pack
481025	6L Pack
481019 (Base - 30L Kit)	20L
481018 (Hardener - 30L Kit)	10L

(200 litre drums of resin and hardener also available)

Solvent 10:

400810	20L
400800	4L

Coverage

Nitomortar 903: 5 m²/litre (as primer)

Litres of mixed 903 binder	Litres of F4 fillers	Kg of F4 fillers	Yield Litres	Consistency	7 day compressive strength
1	2	2.95	2.4	Fluid paste	76 MPa
1	3	4.42	3.2	Stiff paste	56 MPa
1	4	5.90	4.0	Trowellable	50 MPa
1	5	7.37	5.0	Dry mortar	45 MPa

Note: the coverage figures for Nitomortar 903 are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

Storage

Shelf life

All products have a shelf life of 36 months at 20°C if kept in a dry store in the original, unopened bags or packs.

Storage conditions

Store in dry conditions in the original, unopened packs. If stored at high temperatures, the shelf life may be reduced to 4 - 6 months.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS 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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