

# Fosroc® Nitomortar BH

## High performance epoxy resin blow hole and repair fairing mortar

### Uses

For filling in blow-holes, and eliminating minor irregularities in new and old concrete, prior to the application of Nitomortar and Nitocote epoxy systems.

### Advantages

- Non-slump, can be applied to vertical surfaces and trowelled into concrete blow-holes
- Excellent bond strength to virtually all substrates including saturated surface dry (s.s.d.) concrete
- Smooth paste consistency is easy to apply and finish
- Reduced usage of subsequent coatings and mortars
- Pre-weighed components ensure consistency

### Description

Nitomortar BH is a three component thixotropic material based on superior solvent-free epoxy resin systems. The material is supplied in pre-weighed quantities ready for on-site mixing and use.

Nitomortar BH can be applied to damp surfaces and quickly cures to form a surface ready for overcoating.

### Design criteria

Nitomortar BH can be applied up to 3 mm thickness on vertical and overhead locations in a single application without the use of formwork. Greater thicknesses than those specified can be achieved by application of subsequent layers. Consult your local Parchem sales branch for further information.

For higher build characteristics to vertical or overhead locations, Nitomortar 908, EL or EL-HB are recommended.

### Technical support

Parchem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

## Properties

For filling in blow-holes, and eliminating minor surface irregularities.

<b>Pot life:</b>	30 minutes @ 25°C
<b>Initial hardness:</b>	4 hours @ 25°C
<b>Minimum "back to service" time:</b>	6 hours @ 25°C
<b>Full cure:</b>	7 days @ 25°C
<b>Note: cure times will increase by a factor of 2 for each 10°C reduction in temperature.</b>	
<b>Minimum application temperature:</b>	5°C

## Specification Clause

### Epoxy resin based blow hole repair and fairing mortar

The epoxy resin based fairing mortar shall be Nitomortar BH, a three component solvent-free epoxy resin mortar.

## Application Instructions

### Preparation

Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae.

The surface should preferably be prepared using high-pressure water jetting or light abrasive blasting, followed by thorough washing to remove dust and remaining particles.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should then be assessed by a pull-off test.

No independent priming system is required.

### Mixing

Care should be taken to ensure the Nitomortar BH is thoroughly mixed to produce a fully homogenous trowellable mortar.

Nitomortar BH can be mixed by hand or with a slow speed drill fitted with a suitable spiral stirrer.

The base and hardener components should each be stirred thoroughly in order to disperse any settlement before mixing them together.

Generally the entire contents of the base and hardener should be emptied into a suitable mixing container and mixed for 2 minutes. After which the fillers can be added followed by a further 2 minutes mixing. Smaller quantities or varying consistencies can be mixed on-site by mixing the base and hardener at a 2:1 ratio by volume followed by the addition of filler and further mixing.

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## Application

Apply the mixed Nitomortar BH to the prepared substrate by spatula, filling knife, or steel float, tight trowelling onto the substrate to ensure positive adhesion and that all blow-holes and defects are completely filled to produce a smooth even finish.

Application thickness will vary with profile and alignment of substrate.

When fairing a blow holed surface that is exposed to direct sun, it is important to use the full filler loading (2 parts base, 1 part hardener, 6 parts filler by volume). Using a lower filler loading may lead to the Nitomortar BH bubbling.

If sagging occurs during application, the Nitomortar BH should be completely removed and re-applied at a reduced thickness on to the substrate.

## Finishing

Any ridges left by the trowel can be brushed out while the material is still wet or ground down with a carborundum stone before overcoating.

Important note: do not use solvent to thin component as this will prevent proper cure.

## High temperature working

At ambient temperatures above 35°C, Nitomortar BH will have shorter pot life and working life. The materials should be stored in the shade or in air conditioned environments and should not be applied in direct sunlight.

## Curing

Curing protection is not necessary for Nitomortar BH.

## Overcoating

Nitomortar BH will generally be overcoated. As such overcoating operations can take place as soon as the Nitomortar BH has hardened. If the Nitomortar BH is not exposed to moisture (water, flow, condensation etc), the overcoating window at 23°C will be 48 hours. Otherwise the Nitomortar BH should be lightly abraded, followed by dust removal, in order to provide a suitable surface for subsequent layers.

For further advice, consult your local Parchem sales office.

## Estimating

### Supply

<b>Nitomortar BH:</b>	8 litre pack (base, hardener, fillers)
<b>Solvent 10:</b>	4 and 20 litre pails

### Coverage

<b>Nitomortar BH:</b>	<b>4 m<sup>2</sup> @ 2 mm thickness</b> <b>8 m<sup>2</sup> @ 1 mm thickness</b>
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## Storage

### Shelf life

Nitomortar BH and Solvent 10 have a shelf life of 12 months at 20°C if kept in a dry store in the original, unopened containers.

### Storage conditions

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