



constructive solutions

# Nitotile EP Grout-R

Chemical resistant epoxy grout for tiles

## Uses

As a grout for filling quarry and ceramic tile joints where chemical and abrasion resistance properties are required such as laboratories, food processing plants, hospitals, abattoirs, kitchen and swimming pools etc.

When fully cured Nitotile EP Grout-R is impervious to water and other liquids and provides chemical-resistant joints between walls and floor tiles. The grout may be used in tile joints up to 12 mm wide in internal or external applications.

## Advantages

- Easy to apply - fast application possible.
- Easy to clean up during application - can be washed off with water until initial set.
- Long work life - gives long adjustability time.
- Waterproof - unaffected by water when cured.
- Interior or exterior use.
- Chemical resistant - good resistance to acid and alkalis.
- High bond strength to steel, concrete and tiles.
- Suitable for use in Middle East conditions.

## Standards compliance

Nitotile EP Grout-R meets the requirements of ANSI specification A118.3 E5.5.

## Description

Nitotile EP Grout-R is a 3 component epoxy resin based grout consisting of base, hardener, and specially selected fine fillers. The components are mixed together to give a smooth, non-slump paste grout of white color. Other colors are available upon request.

## Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

## Properties

<b>Specific Gravity:</b>	1.8 @ 25°C	
<b>Color (mixed material):</b>	Standard white	
	@ 20°C	@ 35°C
<b>Pot life:</b>	2 hours	1 hour
<b>Initial set:</b>	8 hours	4 hours
<b>Initial cure:</b>	24 hours	16 hours
<b>Full cure:</b>	7 days	4 days
	<b>Test method @ 7 days</b>	<b>Nitotile EP Grout-R</b>
<b>Compressive strength:</b>	ASTM C579-75	50 N/mm <sup>2</sup>
<b>Tensile strength:</b>	ASTM C307	12 N/mm <sup>2</sup>
<b>Bond shear strength:</b>	ANSI A118.3 E5.55 N/mm <sup>2</sup>	

## Instructions for use

### Surface preparation

It is important that surfaces should be clean and free from dust, loose particles and grease. Oil and grease contaminated concrete surfaces should be treated with Fosroc Chemical Degreaser and then washed well with clean water. Steel surfaces should be grit blasted to SA 2½ and the grout applied within 3 hours of blasting.

### Mixing

The base and hardener components should be individually stirred to redispense any settlement. Base and hardener should then be mixed until a uniform liquid is obtained. The filler should then be incorporated using a slow speed drill and paddle.

### Application

The mixed grout should then be applied using rubber trowel, sweeping the grouting paste into the joints. Alternatively use the hand operated gun to fill in the joints. Ensure that the joints are completely filled. After about 30 minutes or prior to the expiry of pot life of the grout, clean the excess grout with a cellulose sponge and clean warm water to provide neat finish surfaces.

### Cleaning

The grout can be removed from tiles and tools before initial set using a damp rag. After initial set Fosroc Solvent 102 and/or mechanical removal is necessary.

# Nitotile EP Grout-R

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## Packaging

A 12 kg pack containing base, hardener and filler gives approximately 6.5 liters of mixed material.

## Storage

## Shelf life

All products have a shelf life of 12 months if kept under normal ambient conditions.

## Precautions

## Health and safety

Some people are sensitive to epoxy resin and may develop dermatitis.

Direct contact with eyes will cause irritation and may cause serious damage if left untreated. Any eye contamination should be washed thoroughly with water and immediate medical attention sought.

Gloves and barrier creams, e.g. Kerodex 71 or Rozalex 9 should always be used when handling Nitotile EP Grout-R. If contact with skin occurs resin removing cream such as Kerocleanse 22 or Rozalex 42 should be used followed by washing with soap and water. Do not use Solvent.

Nitotile EP Grout-R contains no toxic materials but care should be taken to avoid inhalation of dust and to prevent material entering the eyes. Powder material should be handled to minimise dust formation, use light mask if excessive dust is unavoidable.

## Flash Points

<b>Nitotile EP Grout-R Base</b>	: Over 100°C
<b>Nitotile EP Grout-R Hardener</b>	: Over 100°C
<b>Nitotile EP Grout-R Filler</b>	: Not applicable
<b>Fosroc Solvent 102</b>	: 33°C

## Disposal

Spillages of component products should be absorbed onto earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local waste disposal authority regulations.

For further information, refer to the Product Material Safety Data Sheet.

## Additional Information

Fosroc manufactures a wide range of complementary products which include:

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following:

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office.



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### Important note:

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

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