

## Thixotropic epoxy adhesive for carbon fibre plates

### Uses

Bonding carbon fibre plates to concrete substrates such as beams, columns, slabs etc for flexural and shear strengthening .

### Advantages

- Excellent squeezability
- High bond strength
- Fast cure
- Tolerant to damp surfaces
- Wide range of temperature applications

### Description

Nitowrap 40 thixotropic epoxy adhesive is a 2 pack solvent free epoxy resin system consisting of a white base and black hardener in preweighed quantities for easy onsite mixing.

### Technical Support

Fosroc provides a technical advisory service supported by a team of specialists in the field.

### Properties

Colour	Base	- White
	Hardener	- Black
	Mixed	- Grey
Specific gravity at 30°C	1.60 - 1.65	
Pot life	30 minutes	
Compressive strength (FIP 5.6)		
24 hrs	30 N/mm <sup>2</sup>	
7 days	60 N/mm <sup>2</sup>	
Slant shear bond strength @ 7 days (FIP 5.15)	12 N/mm <sup>2</sup>	
Adhesive bond strength (pull off strength)	>2N/mm <sup>2</sup>	
Squeezability (FIP 5.4)	Squeezes under pressure	

### Application instructions

#### Surface Preparation

Concrete should be mechanically sound and free from contamination, such as free water, mould, oil or grease, laitance and dust. Grit blasting is recommended. Sections to be bonded should be checked for good alignment. A 'dry run' before the first application of the adhesive is recommended to ensure correct timing.

#### Mixing

The base and hardener into a suitable container shall be emptied and mixed with a paddle and slow speed heavy duty drill, ensuring the sides are scraped down. A uniform grey colour should be obtained after mixing thoroughly.

#### Application

The mixed adhesive is applied to both surfaces i.e concrete & carbon fibre plate & the fibre plate is pressed in position & held in position by using adhesive tapes or any suitable method for a few hours..

#### Cleaning of Application Equipment

Tools and equipment should be cleaned immediately after use with Nitoflor Sol.

#### Estimating

#### Packaging

3.7 L standard packs.

#### Coverage

Approximately 2 L/m<sup>2</sup> at 2 mm thickness

#### Storage

#### Shelf Life

12 months if stored below 35°C in unopened containers.

# Nitowrap 40

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## Precautions

### Health and Safety

Some people are sensitive to epoxy resin system 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 should be sought. Gloves, barrier creams and eye protection should always be used when handling Nitowrap 40 and Nitoflor Sol.

If contact with skin occurs, a resin removing cream should be used, followed by washing with soap and water. Solvent shall not be used.

### Fire

Nitowrap 40 is nonflammable. Nitoflor Sol is flammable. Do not use near naked flames. No smoking.

### Flash Points :

Nitowrap 40 (Abel open cup )	Base	100°C
Nitowrap 40 (Abel open cup)	Hardener	100°C
Nitoflor Sol (Abel closed cup method IP 33 )	Solvent	33°C

### Additional information

Nitowrap 40 is a part of wide range of adhesives, repair materials, sealing and waterproofing compounds, grouts and flooring products manufactured by Fosroc for the construction industry.

Separate datasheet is available on these products.

### Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or 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 or information given by it.



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