

Nitofill WS60

Rapid foaming and setting resin for stopping flow of water

Uses

Stops the flow of water when injected into cracks in concrete in the presence of moving water. Nitofill WS60 with Nitofill UR63 provides an effective system for crack sealing in wet conditions.

Advantages

- **Seals against water:** Reacts and produces foam resistant to water
- **Rapid acting :** Rapid reaction to produce water stop in presence of flowing water
- **Reinjectable :** Can be reinjected with Nitofill UR63 to produce a permanent seal.

Description

NitofillWS60 is a two part liquid polyurethane when mixed in the proportions supplied it reacts rapidly with water to form a foam barrier.

Technical support

The company provides a technical advisory service supported by a team of specialists in the field

Typical properties

Specific gravity	1.14 ± 0.06
Density of foam	0.025
Viscosity at 20°C	2 - 3 poise
Pot life, in absence of water	
at 20°C	6 - 8 hours
at 30°C	3 - 4 hours
Reaction time with water	5 to 30 seconds dependent upon temperature

Application instructions

If water flow permits then the surfaces should be free from oil, grease and other contaminants. Nitofill WS60 can be applied using either injection plugs or adhesion packers (nipples) bonded to the surface with Nitomortar PE.

Instructions for use of Nitomortar PE

Surface preparation

Nitomortar PE has to retain the injection system under pressure. Care must be taken to provide a clean and sound surface for bonding

1. Remove heavy deposits of grease and dirt by scrubbing with detergent solution and washing with plenty of clean water to ensure complete removal of the detergent. Dirt alone may be removed with wire brushes or similar mechanical means.
2. Remove deteriorated concrete, laitance and paint. The best treatment is grit blasting with sand, steel shot or a proprietary abrasive. Where grit blasting is impracticable, use rotary wire brushes.
3. Blow the cracks and treated surfaces with oil free compressed air to ensure complete removal of all dust and loose particles.

Mixing of Nitomortar PE

Mix only the quantity of Nitomortar PE that can be applied within the usable life. Pour a small quantity of the resin into the mixing bucket provided and slowly add the powdered catalyst from the polythene bag and stir until a smooth putty like consistency is obtained. Mix further quantities as required and retain some material for making good after removing the injection nipples.

Application of Nitomortar PE

Immediately after mixing, apply the compound to the surface cracks. Overlap the cracks on both sides by 15 - 20mm. In general aim to form a band of 30 -40mm width and 2 - 3 mm thick. Use the material to bond on injection nipples using locating pins to ensure correct sitting. Depending on the width and depth of the cracks the distance between nipples should be 200 to 500mm.

Take care not to block the nipple holes with Nitomortar PE.

Seal the surfaces of the cracks, using Nitomortar PE.

Application of the injection system may be commenced as soon as the Nitomortar PE has cured (at least 2 hours)

Note : At low ambient temperatures the curing time must be extended in order to allow sufficient strength to build up in the sealant.

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Thoroughly mix the accelerator with the base resin. Take care to exclude moisture as much as possible and place in an enclosed container after mixing. There will be a skin on the surface but the liquide underneath will be satisfactory for use.

Nitofill WS60 should be used with standard injection equipment having closed containers.

When flowing water has been stopped, reinject with Nitofill UR63 to give permanent seal. See the datasheet.

Making good

Remove the nipples. Make good any holes or voids with more sealing compound and allow to cure. The Nitokit surface sealant used to seal cracks can then be ground off, or softened with a blow lamp and peeled off. Do not allow to burn.

Cleaning

Use Nitoflor Sol

Storage

Six months shelf life if stored at 20°C

Packaging

Usually available in 2kg packs

Precautions

Health and safety

Some people are sensitive to resins so gloves and a barrier cream should be used when handling Nitofill WS60. If contact with the resin occurs, it must be removed, before it hardens, with a resin removing cream. Follow by washing with soap and water. Do not use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately. Ensure good ventilation and do not smoke during use.

Fire

Nitomortar PE and Nitoflor Sol are flammable

Flash point

Nitoflor Sol 33°C

Nitomortar PE resin 29°C

Additional information

Nitofill WS60 is par tof a wide range of adhesive, grouts, repair mortars and sealing compounds specifically designed and manufactured by Fosroc for the construction industry.



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