



Exposeal® UW

(Formerly known as Nitoseal UW)

Epoxy resin based putty for underwater repairs

Uses

For filling of blow holes, sealing of cracks underwater grouting, eliminating minor irregularities on concrete surfaces in damp and underwater conditions.

Advantages

- Easy mixing of base and hardener in 1:1 by weight
- Easy to apply and finish
- Non-slump, can be applied to vertical surfaces
- Chemical resistant
- Good adhesion to damp concrete
- Cures in submerged conditions without shrinkage

Description

Exposeal UW is a thixotropic, solvent free, two component compound based on water insensitive epoxy resins, inert fillers and thixotropic agents designed for applying in damp and submerged conditions. It is applied directly to concrete for filling cracks, blow holes etc., which cures to form a strong seal.

Technical Support

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

Properties

| | |
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| Specific gravity | 1.6 -1.65 (mixed material) |
| Volume solids | 100% |
| Minimum application temperature | 10°C |
| Compressive strength | 45 N/mm ² on full cure |
| Pot life | 30 min. at 30°C |
| Drying time | 16 hrs at 30°C |
| Full cure | 7 days at 30°C |
| Pressure resistance | More than 0.5 N/mm ² after 7 days |

Application instructions

Surface preparation

Concrete surfaces should be clean and free from moss, algae, fungai etc. Wire brushing or abrading may be necessary to achieve suitable surface for application.

Mixing

Transfer the base and hardener component at 1:1 ratio into a suitable container. Using a heavy duty, slow speed drill fitted with a suitable mixing paddle, mix the two components to achieve a uniform consistency. It is important that both the components are intermixed thoroughly.

Application

Due to its easy workability the product can be applied by using a scraper, filling knife or by manual means. After complete mixing, the material can be used directly from the Can or subdivided on to the spot boards for individual applications.

Tool cleaning

The tools should be cleaned after use before the material cures. Nitoflor Sol shall be used for cleaning the tools. Cured material can only be removed mechanically.

Limitations

Exposeal UW is not suitable for application below 10°C and above 40°C.

Cured Exposeal UW is not suitable for subzero temperatures.

Estimating

Packaging

| | |
|--------------|-------------------------|
| Exposeal UW | 2.4 and 24 litre packs |
| Nitoflor Sol | 5 litre & 20 litre cans |

Coverage

Exposeal UW will be consumed at a rate of 1m² at 1mm thickness/Litre. Depending on the substrate conditions the coverage may vary.

Storage

Shelf Life

12 months in unopened containers when stored under normal warehouse conditions.

Exposeal® UW

Precautions

Health & Safety instructions

Contact with the skin and eye should be avoided. Gloves, goggles and masks should be worn during application.

If the product comes in contact with the skin, it should be washed thoroughly with a suitable industrial cleaner with luke warm water and soap. In case of eye contact, should be washed with clean water and medical advice should be sought immediately.

The material should not be exposed to naked flame. Smoking is prohibited during handling /application of the product.

Fire

Flash point : 40°C

Additional information

The Fosroc range of associated products includes high strength cementitious grouts, epoxy injection systems and grouts, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; resin anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction viz. admixtures, curing compounds, mould release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.

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