



Expocrete EUW

High strength underwater flexible epoxy concrete

Uses

For the fast and permanent reinstatement of concrete, particularly where high strength, abrasion, impact and chemical resistance are required. The product is designed for underwater applications. It is ideally suited for reinstatement of defective concrete surface in bridges, dams, foundations, slabs, joints in highways, concrete runways and for use as a bedding material.

Advantages

- Most suited for underwater applications
- Solvent free
- Dimensionally stable hardening
- High compressive and abrasion strengths
- Curing unaffected by humidity
- Suitable for both damp and dry surfaces
- Rapid hardening at low temperatures
- Impact resistant

Description

Expocrete EUW is a solvent free, epoxy based underwater repair concrete, which is supplied as three component system.

Technical support

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

Mix proportions

	Form
Base (B)	: Liquid
Hardener (H)	: Liquid
filler (F)	: Graded sand with aggregate
Mixing ratio (by wt) :	B : H : FF 3.7 kg : 1.85 kg : 22.2kg

Properties

Fresh Density of epoxy concrete :	2.02 kg/litre
Pot life	: 30 - 40min. at 27°C
Flow as per BS Cone	: 18 - 19 cm

@ 27°C	Air curing @ 7 days	Underwater application @ 7 days
Compressive Strength (BS 6319 Pt.2)	100 N/mm ²	80 N/mm ²
Tensile Strength (BS 6319 Pt.7)	12 N/mm ²	3.0 N/mm ²
Flexural Strength (BS 6319 Pt.3)	27 N/mm ²	7.0 N/mm ²

Application instructions

Preparation

The surface shall be cleaned free from any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. The surface shall be roughened and any laitance shall be removed by light scrubbing or grit blasting.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser.

Substrate priming

Normal concrete and other similar substrates do not require priming. Priming is not required even for underwater conditions. Expocrete EUW can be applied after thorough surface preparation.

However non-porous substrates such as steel should be primed. The primer consists of Expocrete EUW hardener and base mixed in the proportion 1:2 by weight. Expocrete EUW can be applied when the surface is tacky, typically 15 to 20 minutes after priming.

Mixing

Care should be taken to ensure that Expocrete EUW is thoroughly mixed to produce a fully homogenous, flowable concrete.

The 'hardener' and 'base' components should be stirred thoroughly in order to disperse any settlement before mixing them together. The entire contents of the base and hardener are emptied into a suitable container and mixed for about 3 minutes using a forced action mixer / slow speed heavy duty drill fitted with a paddle. Filler shall be added slowly during mixing and mixed until a homogenous material is obtained.

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Application

On dry surfaces, whilst the primer is still tacky, the mixed concrete shall be spread and then trowelled firmly into place and can be applied at a thickness of 30-40mm. Minimum application thickness shall be 20mm

In underwater application, place the material ensuring minimum wash out.

Finishing

Expocrete EUW is levelled and finished with a steel trowel. The completed surface should not be overworked.

Cleaning

All tools and equipment shall be cleaned immediately after use with Nitoflor Sol, solvent.

Estimating

Packaging & Coverage

Expocrete EUW 13.5 L (27.75 kg.) packing.

Nitoflor Sol 5 L

Storage

Shelf life

All products have a shelf life of 12 months below 35°C if kept in a dry store in the original, unopened packs.

Storage conditions

Store in dry conditions in the original, unopened bags or packs. If stored at high temperatures, the shelf life may be reduced.

Precautions

Health and Safety instructions

Expocrete EUW and Nitoflor Sol should not come in contact with skin or eyes, or be swallowed. Adequate ventilation shall be ensured and inhalation of vapours shall be avoided. Some people are sensitive to resins, hardeners and solvents. Suitable protective clothing, gloves and eye protection shall be worn. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provide additional skin protection. In case of contact with skin, it shall be removed immediately with resin removing cream followed by washing with soap and water. Solvent should not be used. In case of contact with eyes, it shall be rinsed immediately with plenty of clean water and medical advice shall be sought immediately. If swallowed, medical attention shall be sought immediately - Vomiting should not be induced.

Fire

Expocrete EUW is non-flammable.

Nitoflor Sol is flammable. It shall be kept away from sources of ignition. Smoking is prohibited during handling / application of the product. In the event of fire, it shall be extinguished with fire extinguishers like carbon-dioxide or foam. Use of water jet is not suggested.



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