

EPOFIX 713 EPIS (UW)

UNDERWATER EPOXY RESIN INJECTION

DESCRIPTION

EPOFIX 713 EPIS (UW) is a underwater grade two parts, low viscosity epoxy for the sealing of fine cracks and repairing of concrete to restore the structural strength. The cured **EPOFIX 713 EPIS (UW)** adhesive will seal the cracks entirely and completely restores the concrete to its original monolithic conditions. **EPOFIX 713 EPIS (UW)** is supplied in two parts for use with plural injection machine, grout pump or in cartridges.

USES

It is recommended to use as repairing material of cracked concrete, jointing of concrete members, rebounding of delamination in concrete toppings, tiles, etc thus avoiding other costly replacement or methods. It is also suitable for grouting of bolts, anchor bars etc and consolidation of friable rocks and stones. **EPOFIX 713 EPIS (UW)** is formulated for under water or marine structures application.

BENEFITS

- Fast cure.
- High strength.
- Low viscosity, ready to flow.
- Excellent Adhesion even on damp surfaces.
- Low reactivity thus reduces exothermic heat generation.

COLOR

Amber Brownish



Technical Data :

Mixing Ratio	2 : 1
Mixed Viscosity	190 cps
Pot Life (for 1Kg mix at 25°C)	30mins (any specific pot life and mixing ratio can be adjusted on request)
Compressive Strength	80 N/ mm ² (11,300 psi)
Felxural Strength	95 N/ mm ² (13,500 psi)
Modulus of elasticity in tension	32 N/mm ²
Adhesion to damp concrete	Good
Application temperature (Building component and material)	> 8 °C
Adhesive Strength	Dry : 4.3mm ²
Bending Tensile Strength	53 N/mm ²
Tensile Strength ~ Elongation at break	20 N/mm ² ~ 20%
E modulus	6570 N/mm ²
Shrinkage	<3 %
Glass transition temperature	>40°C
Packaging	15kg
Shelf Life (between 5°C to 30°C)	Minimum 12 months

NOTE: Coverage figure given is theoretical. Due to wastage factors, the variety nature of the substrate, and the site application condition, etc., the practical coverage may be reduced.

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

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CEMKRETE[®]

ISO 9001 & 14000 CERTIFIED

APPLICATION PROCEDURE

SURFACE PREPARATION

Providing the cracks to be injected are not too fine, blow them out with compressed air to remove all dust. Make sure the compressed air is free of oil and water. After the cracks have been cleaned, bond flanged injection nipples onto their surface with **Epofix 712**. Take care not to block the nipples with the adhesive used. Dry wet surfaces before the adhesive is applied. The distance between any two injection pints will usually be between 20cm to 50 cm depending on the thickness of the concrete. Fit injection nipples to one surface of concrete that is cracked all the way through.

Test done on concrete usually resulted in failure at concrete.

INJECTION

Make sure that the cracks are still free of dust, etc., preferably by blowing through all the nipples in succession with compressed air. During this operation, all the nipples should be closed off except the one through which the compressed air is being blown and the one adjacent to it. Inject the **Epofix 713 EPIS (UW)** system into the crack, In the case of vertical cracks, start injection at the lowest nipple and continue until the injected material begins to flow out of the next higher nipple. Then close off the first nipple and continue injection at the second until the material flows out of the third. Repeat this process until the whole length of the cracks has been injected. Use a grinding wheel to remove the sealing compound and nipples once the injected system has cured.

CLEAN-UP

Tools and equipment should be cleaned immediately after use.

HEALTH & SAFETY

Do not take internally and avoid contact of uncured material with skin. It is advisable for workers to wear protective clothing during application. Clean hands and equipment promptly with soap and water.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine overall requirements.

CEMKRETE have a wealth of technical and practical experience built up over many years in our pursuit of excellence in steel and concrete protection technology.

Customers are welcome to call our Technical Service Department on all matters pertaining to coatings.

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