

XCHEM

TECHNICAL DATA SHEET

FORTMASTIC SUB-AQUA ADHESIVE

DESCRIPTION

Fortmastic Sub-aqua Adhesive is a two-component, epoxy-based mortar which can cure under water.

KEY PROPERTIES

- Fortmastic Sub-aqua Adhesive possesses special properties that enable it to completely cure underwater.
- Fortmastic Sub-aqua Adhesive is slump-free and can be used on vertical and horizontal surfaces.
- The product is chemical resistant.

KEY APPLICATIONS

Fortmastic Sub-aqua Adhesive finds popular use in bonding old to new concrete under water. It can also be used on damp surfaces.

DIRECTIONS FOR USE

- Concrete aggregates must be exposed on the area to be bonded or filled. This can be achieved by chipping off surfaces pieces.
- Remove any loose aggregates before applying Fortmastic Sub-aqua Adhesive.
- Mix the two components thoroughly using the ratio:

Resin	13 parts by weight
Hardener	12 parts by weight
- Apply using a steel or wooden float to ensure that the required number of layers are achieved.
- Allow a minimum of 48 hours for curing before putting into service.
- All tools should be cleaned using lacquer thinners.

TECHNICAL DATA

- **Solids Content** : 95%
- **Pot Life** : Approx. 1hr
- **Shrinkage on cure** : Less than 1%
- **Tensile strength*** : 14.3mm²
*(*After 1 week at room temperature using rectangular bar of cross-section 125 mm)*
- **Compressive strength**** : 52N/mm²
*(**After 1 week at room temperature)*
- **Bending strength***** : 40.3N/mm²
*(***At 6mm deflection 1 week at room temperature, using rectangular bar of cross-section 125mm)*
- **Bending strength¹** : 88.1N/mm²
(¹At break after 1 week at room temperature)
- **Elongation at break†** : 13.1%
(† After 1 week at room temperature)

STORAGE AND STABILITY

- Fortmastic Sub-aqua Adhesive has a shelf life of 24 months if kept, sealed, in the original packaging under cool and dry conditions.
- In extreme conditions the storage period might be shortened.
- Containers must be tightly sealed after use. Dispose of discarded packaging and unused material according to local regulations.

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TOXICITY

- It is non-toxic when cured, and is suitable for use on concrete and surfaces where drinking water is stored.
- Wash hands with warm soapy water.

SAFETY PRECAUTIONS

- Protective clothing/gloves should be worn when handling Fortmastic Sub-aqua Adhesive .
- Normal industrial hygiene should be practiced during handling.
- Ensure good ventilation or alternatively wear a protective mask whilst handling the product.
- In case of skin contact immediately wash the affected area using warm soapy water.
- In case of eye contact immediately rinse the affected eye(s) with clean water and **IMMEDIATELY** contact a doctor.
- Harmful if ingested. Keep away from children. In case of any ingestion, contact a doctor or health worker immediately.

The data and recommendations concerning this product are the result of extensive XCHEM laboratory testing and experience. As the use of the product is beyond our control, no warranty is expressed or implied and the customer should satisfy him/her self as to the suitability for this particular application.



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