



# STRUCTUROC UNDERWATER

Rapid setting, cement based mortar  
for undeswater repairs

STRUCTUROC UNDERWATER is a very rapid setting mortar especially formulated to underwater uses. STRUCTUROC UNDERWATER used a chemical hydration that provide a stable interstitial cement and a low permeability cementitious mortar. Applications will vary between 20mm and 75mm (3/4 and 3").

## ■ USES

Filling of water leaks and sealing of cracks for injection process

### TYPICAL USES:

- Seal leaks in concrete walls
- Repair of pre-fabricated pipes and concrete products
- Repairs of pipes and manholes as well as cunettes
- Underwater and underground repairs

## ■ PRODUCTS FEATURES

- Strong resistance in adherence
- Dimensionally stable
- Resistant to shrinkage
- Variable thickness application
- Very rapid initial set time (3 to 5 minutes)
- Resistant to chemical attack caused by sewage and sulphate present in water treatment plants and their conduits
- Easy to use
- Cures underwater
- Can be used in salt water

## ■ SURFACE PREPARATION

Good repair is achieved when the repair mortar is firmly bonded to the base surface. The surface to be treated must be rough and clean. Clear the existing concrete surface of any ripening membrane, oil, grease, delaminated concrete, dust, dirt and other harmful substances. Borrowing or abrading concrete for a CSP 6 profile according to ICRI (Bulletin 310.2)

## ■ PRIMING

No primer required

## ■ PRODUCT MIXING

- Measure 4.7 to 5.3 liters of clean water in a mixing container. then add 22.7kg of the powder to the water and knead for MAXIMUM 60 seconds.
- The desirable consistency would be like a dough to model, without sagging
- Considering that setting time is very fast, mix smaller quantities in a clean pail.

## PHYSICAL MATERIAL PROPERTIES @ 22°C (72°F), 50% HR

### COMPRESSIVE STRENGTH ASTM C109

28 days	41.4 MPa	(6,000 psi)
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### FLEXURAL STRENGTH ASTM C348

7 days	4.1 MPa	(595 psi)
28 days	4.8 MPa	(700 psi)

### HARDENING ASTM C266

Initial set time	3-5 minutes
Final set time	20 minutes



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## ■ PRODUCT APPLICATION

Push the product into the repair area, use a trowel or hand to place the material. For prefabricated structures fill manually voids and honeycombs while wearing rubber gloves

## ■ CURING

STRUCTUROC UNDERWATER is a self-ripening product underwater. For applications outside the water mature according to standard practices.

## ■ ESTIMATING / YIELD

STRUCTUROC UNDERWATER is packaged in bags or boilers of 22.7 kg which gives a yield of 13 liters (0.47ft<sup>3</sup>), when it is mixed with 5.2 liters of drinking water we will cover approx. 0.52 m<sup>2</sup> (5.6 ft<sup>2</sup>) At a thickness of 25 mm.

## ■ PRECAUTIONS / RESTRICTIONS

- Do not apply on fresh concrete
- Does not require bonding agent
- Does not apply to temperatures below 2°C
- Do not add adjuvants to this product

## ■ PACKAGING

**STRUCTUROC UNDERWATER:**  
22.7 kg (50 lbs) bags or pails

## ■ RECOMMENDED TOOLS

The following tools will ensure an efficient and economical installation:

- Rubber gloves
- Mixing container
- Mason trowel

## ■ CLEANING

Use water to clean all tools and equipment.

## ■ STORAGE

Store in a dry place. 18 months shelf life.

## ■ SAFETY

See the Material Safety Data Sheet (MSDS).

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BMQ SOLUTIONS WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Data Sheet when used in accordance with its directions. BMQ Solutions makes NO OTHER WARRANTY either expressed or implied.  
Buyer assumes all risk in handling.

*For Professional Use Only*

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