



WATERFIX

Ultra- quick setting cement

Properties

WATERFIX is a quick setting cement without chloride components. Its setting begins immediately after mixing with water.

Applications

It is used for instant sealing of water leaks, waterproofing of "bleeding" surfaces and fast fixing and repairing.

In order to achieve a permanent waterproofing, the hardened **WATERFIX** must be coated with multiple layers of **WATERBLOCK**.

Technical Data

Unit weight	1,09 kg/l
Minimum water for mixture: (for instant sealing of water leaks)	30% by weight
Conclusion of initial setting:	1 min
Conclusion of final setting:	3 min
Compression resistance after 28 days: (EN 196-1)	32 N/mm ² *)
Flexure resistance after 28 days: (EN 196-1)	6,5 N/mm ² *)
Efficiency in volume of hardened cement paste:	1,5 kg WATERFIX /l

*) In accordance to a Test Report issued by the Building Material Laboratory of the Polytechnic School of the Aristotle University of Thessaloniki



VIMATEC - N. VIDALIS S.A.
CONSTRUCTION CHEMICALS TECHNOLOGIES

Head: 1-3, Makedonias str, GR-546 41 Thessaloniki GREECE
Tel: +30-2310 858561, +30-2310 843093 Fax: +30-2310843566
Branch: 8, Narkissou str, GR-136 72 Acharnes Attiki GREECE
> www.vimatec.gr <



How to use

Add **WATERFIX** in the water progressively and mix it until the mixture obtains the required plasticity.

1. Leak sealing

In case of **local leaks**, the mixture water should not exceed 30% of the weight of the quick setting cement. Wet **WATERFIX** in form of tight clay should be kept under pressure at the leak point for at least 50-60 seconds. If the water pressure is very high, the sealing of the leak is being accomplished by using a dry, compressed ball of **WATERFIX**. The application takes place manually and rubber gloves must protect hands.

The water and ambient temperature should exceed +15° C. In any other case the setting will be slowed down (at +5° C the initial setting time is quadrupled in comparison to +20° C), therefore mixing **WATERFIX** with warm water is recommended.

In case of water under pressure, open a hole with a chisel or a drilling tool and broaden it inwards (swallow tail shape) in order to improve the anchoring of **WATERFIX**. Sealing the water leak may demand more than one attempt.

If there is a **surface water leak** without pressure from many locations ("bleeding"), rub the wet surface with **WATERFIX** powder to absorb the "bleeding" water. The now hydrated quick setting cement may be applied with a spatula to seal the surface.

In case of high pressure water leaks from many locations, open some holes with the drilling machine and use **WATERFIX** to fasten plastic release pipettes there. This way you distribute the water at will and you can seal the leaking surface using the method of coating with **WATERFIX** powder. Finally the expansion pressure points are "plugged" with wet **WATERFIX**.

Caution!

Never forget to use **WATERBLOCK** on top of the **WATERFIX** sealing for permanent and final waterproofing.



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2. Fixing – repairing

When mixed with sand, **WATERFIX** creates a quick setting mortar that is appropriate for fixing iron structures, anchoring machines or repairing – restoring concrete elements. The admixture of **WATERFIX** with sand in a 1:3 ratio by weight is recommended. By adding water 65-70% by weight of **WATERFIX**, the initial setting of the mortar is concluded in about 3 minutes and the final setting is concluded in 6-7 minutes.

Remarks

- **WATERFIX** should be used quickly, as setting begins immediately after mixing with water and the initial setting is concluded in about 1 minute.
- Ambient and mixing water temperatures have a reverse effect on the initiation and conclusion times of setting. Therefore always start with a test application prior to the application of **WATERFIX**.
- In case the setting should not take place so fast, you may slow down setting time at will by adding common Portland cement. e.g for **WATERFIX** mix :cement CEM I 32,5=1:3 , the initial and the final setting time are approximately 5 and 25 minutes.
- Never soften an already hardened material using water.
- **WATERFIX** reacts as alkaline to water and is considered to be irritant. Always apply with protective gloves.

Storing

WATERFIX is stored in dry environments in its sealed package.



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