

Aquatek Plug (XF)

Fast (Aquatek Plug) and Extra Fast (Aquatek Plug XF) setting mortar to plug active water leaks.



• field of application

Stops active water leaks and seepage, even under high pressure through joints, cracks, honeycombing and holes in all structures made out of concrete, masonry, stone and renders.

• advantages

Aquatek Plug has a final setting time of 3 minutes, Aquatek Plug XF of 30 seconds. Can be applied even under water.

Durable

- Chloride-free, hence non-corrosive.
- Permanent watertight seal.
- Cement-based character ensures perfect compatibility with concrete and masonry.

Economical

- Ultra-rapid set for instant plugging of leaks.
- No injection necessary.

Easy application

- Ready to use: requires only the addition of water.
- Equipment can be cleaned with water.

Environmentally friendly

- Cement-based.
- Solvent free.

• description

Aquatek Plug & Plug XF are powders composed out of cement, selected silicas and modifiers. When mixed with clean water Aquatek Plug & Plug XF provide rapid setting plugging mortars.

• application

1. Substrate preparation

- The substrate must be firm, free of efflorescence, tar, oils, grease and all other contaminants. Sand blast or clean with high pressure to remove the concrete surface laitance.
- Preferably, cracks and holes should be cut out to a minimum width and depth of 10 mm, cutting the sides as square as practicable. Undercut if possible. Avoid leaving a V-section. Do not featheredge. Flush out the hole or crack with water at high pressure to remove all loose particles and dust. All surfaces must be dampened with clean water immediately prior to the application of Aquatek Plug.

2. Mixing

- Aquatek Plug and Aquatek Plug XF should be mixed at the rate of approx. 3 parts powder to 1 part water by volume and should be used immediately after mixing. This mixing ratio corresponds with 0,35-0,40 l of clean water for 1 kg Aquatek Plug and 0,28-0,33 l of clean water for 1 kg Aquatek Plug XF.
- Mixing should only be done by hand to a putty consistency. Only make as much material as can be applied in a single go.

3. Application

Sealing active leaks

- Mould the material in your hand into an appropriate form until slight warmth is felt. Material should be stiff but still plastic. Press the material into the opening without moving and continue to exert pressure until the mortar is hard. Do not remove hand too quickly.
- Larger gapes can be filled in stages. Use a limited amount of material (0,5 kg) each time and work from the sides to the middle, following the above procedure. Sometimes it is advisable to place a drainpipe before applying the rapid set mortar. This pipe can be closed later when the rest of the material has hardened. Surplus material can be trimmed off with a trowel when the material has not yet completely become hard. Work carefully from the middle to the outside.

4. Curing

- Curing and setting times will depend on the ambient and substrate temperatures.
- Due to the rapid hydration, Aquatek Plug & Plug XF will develop a high temperature. In order to remove this heat, dampen the material with clean water and maintain as such for a minimum of 15 minutes.

5. Cleaning and Maintenance

- Mixing and application equipment should be cleaned immediately with clean water.

• technical data/properties

Property	Value
Wet density	2,14 kg/dm ³
Final setting time	3 minutes for Plug 30 seconds for Plug XF
Mixing ratio	0,35-0,40 l water for 1 kg Aquatek Plug 0,28-0,33 l water for 1 kg Aquatek Plug XF
Dry density	1,2 g/cm ³
Mechanical properties	
Compressive strength (28 d.)	30 N/mm ²

(a) Typical values - all tests were executed under a conditioned temperature of 21°C.

• appearance

Grey powder.

• consumption

± 1,45 kg powder per dm³.

• packaging

- 10 or 25 kg metal pails.
- 1 pallet = 36 pails (25 kg).
- 1 pallet = 48 pails (10 kg).

• storage

Aquatek Plug & Plug XF should be stored under cover, clear of the ground. Protect the materials from all sources of moisture and frost.
Rotate stock in order not to exceed the shelf life (12 months, because material is highly hygroscopic).

• **health & safety**

Aquatek Plug & Plug XF are products based on cement and can therefore cause burns to skin and eyes, which should be protected during use.

Wear gloves and protective eye shields. Wearing a dust mask is advised. Wash splashes to eyes and skin immediately with clean water.

For full information, consult the relevant Material Safety Data Sheet.

*All data mentioned on this technical data sheet are product descriptions. They are the result of general experience and experiments and don't take any specific application into account. No further demands may be derived from these data. The manufacturer has the privilege to implement technical changes, which result from new research concerning the material composition and form. To verify that you are holding the latest version of this Technical Data Sheet, please visit www.deneef.com.
De Neef Conchem • 28-06-2011-01.*