CONCRETE AQUA GUARD

TECHNICAL DATA SHEET

WATERSTOP FAST SETTING GROUT

DESCRIPTION

WATERSTOP is a fast setting powder that, when mixed to a stiff-dough consistency with water, may be used to immediately arrest the seepage or flow of water through concrete voids.

WATERSTOP is used to stop flowing water, allowing waterproofing repair to be installed in leaking cracks, holes, joints or any place where water is penetrating a concrete structure.

FEATURES & KEY BENEFITS

- Stops flowing water immediately
- Sets fast, in one to two minutes
- Easy to mix and apply
- Will set up and harden under water
- Has exceptional strength
- Does not contain any chlorides
- Safe for drinking water applications
- Can stop extreme leaks
- Works where all other products fail
- Lasts as long as the structure to which it is applied
- Exceptional durability
- Non-shrink, non-metallic

TYPICAL APPLICATIONS

- Foundations
- Basement
- Tunnels
- Pipes
- Maritime projects
- Submarine works
- Elevator pits
- Concrete walls
- Concrete slabs
- Construction joints
- Marine structures
- Swimming pools
- Water treatment plants
- Channels
- Potable water tanks
- Parking structures

APPLICATION GUIDELINES

The crack or hole to be treated should be chipped away to a minimum depth of 40 mm and width of 30 mm by undercutting or square cutting (not by v cut but by u chipping). Flush away all cuttings and dirt to form a clean washed surface.

Mix WATERSTOP with clean water only. Add approximately 4 parts powder to 1 part clean water by volume, just enough water to form a putty consistency.

Do not use more WATERSTOP than can be placed in 2 minutes, whilst allowing for only a 30 second mixing period. Place with minimum working or rubbing. Force the WATERSTOP into the crack or hole by pushing firmly; using maximum pressure. Keep damp for at least 15 minutes to help curing.

COVERAGE

1 kg of WATERSTOP fill about half liter of cavity

1 kg/m use as part of the repair system

The coverages are theoretical and depend on other conditions.

STORAGE

WATERSTOP should be stored at room temperature (min 5°C and max 35°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 2 years can be expected.

PACKAGING

WATERSTOP is supplied in 20 kg pails

TECHNICAL DATA

Color	Dark Grey
Appearance	Powder
Density	1.9 g/cm^3
Layer thickness	15 mm
Particle size	0-0.5 mm
Initial set time at 25°C	30 seconds
Compressive strength	25 N/mm^2
Mix ratio	4:1 (By volume)
Adhesion	>0.8 MPa
Solids content	100%

HEALTH & SAFETY

This product becomes caustic when mixed with water or perspiration.

WATERSTOP should only be used as directed. We always recommend that the Health & Safety Data Sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection.

DISCLAIMER

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CONCRETE AQUA GUARD

CE

TECHNICAL DATA SHEET

CE

Manufactured For:
Concrete Aqua Guard Ltd. Teelin Rd, Carrick, Co Donegal. Ireland
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WATERSTOP
Principle 3 Concrete restoration
Method 3.1 Applying mortar by hand

EN 1504-3
Products and systems for the protection and repair of concrete structures

Essential characteristics	**Performance**
Compressive strength	Class R2 ≥25 MPa
Chloride content	Class R2 ≤0,05 %
Adhesive bond	Class R2 ≥ 1.5 MPa
Restrained shrinkage / expansion (dimensional stability) where required. Not required if thermal cycling is carried out	NPD*
Carbonation resistance (For durability of corrosion, protection or inhibition) where relevant	NPD*
Elastic modulus, where relevant	NPD*
Thermal compatibility. Freeze/thaw cycles	Class R2 ≥ 0,8 MPa
Skid resistance, where relevant	NPD*
Coefficient of thermal expansion (only for polymer concretes) where relevant	NPD*
Capillary Absorption	Class R2 ≤0.5 kg/(m^2 x $h^{0,5}$)
Reaction to fire	Class A1
Dangerous substances	NPD*

NPD*. No Performance Determined

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