

TECHFIN WATERSTOP

A QUICK SETTING CEMENT COMPOUND USED TO STOP FLOWING WATER IN CONCRETE WATER RETAINING STRUCTURES

DESCRIPTION

TECHFIN WATERSTOP is a fast setting high alumina cement based material used to stop flowing water through gaps in walls. Due to its high density, once set hard enough to resist water pressure, gaps are completely sealed off and can be easily packed with instant results.

ADVANTAGES

- Easy to use - addition of water only or applied to surface in powder form
- Sets quickly within 1 - 2 minutes
- Chloride and nitrate free
- Expands on setting
- Sets hard with high resistance to sustained water pressure
- Cures to high compressive strength even when continually exposed to water
- Non-toxic and non-tainting

APPLICATIONS

- Retaining walls
- Dam walls, weirs and ponds
- Drainage systems
- Sewers
- Potable water tanks
- Concrete wine tanks
- Pipe joints

TECHNICAL DETAILS

Setting Time	1-2 minutes
Water Pressure	After 5 minutes
Appearance	Grey Powder
Mix ratio	Add water to putty consistency 3:1 by volume or suitable to the size hole and water pressure required to stop
Compressive Strength	10 MPa (24 hours)
Coverage	Relevant to the hole size and mix ratio used
Yield	0,3Lts to 0,5Lts per kg of dry weight
Silica grading	None
Working Temperature	5°C to 25°C

WATCH POINTS

- TECHFIN WATERSTOP has a very short working time so only mix the amounts you are going to use immediately.
- Keep unused product dry until required for use.
- Apply pressure to the product once used until set hard to avoid water pressure from ejecting the stop.
- Do not use on smooth unprimed surfaces as adhesion will to these surfaces is not suitable e.g. painted surfaces, plastics etc.

PACKAGING

TECHFIN WATERSTOP is packed in a 25Kg bag,

SHELF-LIFE

One year if kept in a dry, cool place.

DIRECTIONS

PREPARATION

Surfaces are to be sound and free from loose materials. Remove any organic growth, slim, paints, or coatings that will interfere with the adhesion of the product. Surfaces must be absorbent. TECHFIN WATERSTOP is a very fast setting material and all preparatory work must be completed before mixing is commenced.

PRIMING

No priming will be required. Wet the surface prior to application of TECHFIN WATERSTOP directly to the surface.

MIXING

Mix water with TECHFIN WATERSTOP to a putty consistency suitable for the size of hole and water pressure to stop. The bigger the hole and higher the water pressure, the more stiff the mix. Tool the material into the prepared opening and hold firmly in place until product has hardened. Seal cracks from top to bottom, ending with the point of maximum pressure. To make the final closure, delay placing TECHFIN WATERSTOP until it is warm to the touch and then force it into the opening and exert pressure for a few minutes until the material hardens. Remove all surplus material. Wet cure TECHFIN WATERSTOP for at least 30 minutes. For optimum results, wet cure for a further 3 days

SEALING

While not necessary, TECHFIN WATERSTOP can be sealed with a waterproofing sealer to prevent damp concerns at the plug points.

PRECAUTIONS

Wear gloves when using TECHFIN WATERSTOP as the product is highly alkaline and is corrosive to skin on contact.

TOOLS

Gloves and pointing trowel.

CLEANING

Clean off all equipment and contaminated surfaces with cold water immediately. Once the product has set hard mechanical or chemical removal of the product will be required.

STORAGE

Store the product in a cool, dry place away from humidity and rising damp. Once opened, use the product within a few days.

SAFETY

Wear rubber or neoprene gloves when using the product. Avoid direct skin contact.