

# TECHFIN WATERGUARD

## CEMENTITIOUS SURFACE WATER BARRIER SYSTEM

### DESCRIPTION

TECHFIN WATERGUARD is a two part water barrier system incorporating a blend of cementitious powders combined with proprietary activating chemicals and high grade quality aggregate fillers with selected bonding agents.

TECHFIN WATERGUARD is a water barrier system for concrete, cementitious and masonry substrates. The slurry coating forms a moisture barrier, significantly reducing the water absorption into dry surfaces, allowing moisture to migrate out of protected areas and avoiding moisture build up and dampness.

It provides positive and negative water repellency against dampness and ground water as well as hydrostatic pressure.

### ADVANTAGES

- Pre-blended
- Blocks passage of water - seals pores
- Can be applied to wet surfaces or green concrete
- Ease of application - brush applied
- Non-toxic and non-tainting
- Exceptional Adhesion

### APPLICATION

- Basements, lift walls, tunnels
- Water Towers, silos
- Sewage tanks, effluent pits
- Subways, manholes
- Reservoirs, canals, swimming pools
- Pre-stressed and precast concrete units

### TECHNICAL DETAILS

Appearance	Grey powder with white liquid
Working Time	1 hour at 20°C
Setting Time	40-45 minutes
Over-coating Time	12 hours
Application Temp.	10°C to 25°C
Number of Coats	3 coats for max effect
Bridging Capability	Maximum 2mm gaps
Yield	10 L per Kit
Coverage	10m <sup>2</sup> per kit
Toxicity	Non-toxic, non-tainting

### WATCH POINTS

TECHFIN WATERGUARD will not withstand movement greater than 2mm and is ideally suited for ridged surfaces.

### PACKAGING

A two component kit consisting of 14Kgs powder and 4.5L liquid.

### SHELF-LIFE

Powder: One year if kept in a closed container in a cool, dry place.

Liquid: Six months if kept in a closed container in a cool place.

**DIRECTIONS**

**PREPARATION**

Surfaces to be treated must be free of dust, oil and grease. Any curing compound, mould oil, release agents or other surface treatments must be removed. Remove any laitance from concrete and weak delaminating mortar from brickwork. Brush down and clean off, leaving a sound substrate providing adequate bond for the applied slurry. Preparation is usually carried out using mechanical tools such as scabblers for floors and bush hammers for vertical surfaces. Static cracks greater in width than 1mm must be chased out, dampened down and repaired with a dry pack consistency of TECHFIN STRUCTURAL REPAIR MORTAR.

**PRIMING**

If there is exposed reinforcement within the treatment area, coat with TECHFIN METAL PRIMER where it is exposed, to ensure sound bonding is achieved. Prior to application, pre-saturate the area to be treated with water and ensure any free standing water is removed before commencing with the coating.

**MIXING**

Mix 1 x 14kg bag TECHFIN WATERGUARD to 4.5 liters of supplied BONDING AGENT to produce a suitable brush-on mixture. Using a suitable container, add the powder to the liquid and stir to produce thick slurry. Apply to dampened surfaces while still damp to ensure proper coverage and adhesion. Whilst applying the product, occasionally stir the slurry to prevent settlement of the solids within the container. Do not re-temper the product once it has

started to set. Apply the material in two or three coats, each coat at right angles to the other. For good waterproofing protection, an average coverage of 2kg (1lt) / m<sup>2</sup> should be applied. Allow 12 hours curing between coats. TECHFIN WATERGUARD must not dry out too rapidly and should be kept damp for a minimum of 2 to 3 days.

**SEALING**

Not required.

**PRECAUTIONS**

- Protect treated areas from mechanical damage by covering with a mortar screed or render.
- Protect newly treated surfaces from frost and rain.
- Use rubber or plastic gloves to protect against cement burns.
- DO NOT add water to the supplied kit as this will dilute the waterproofing ability of the product.

**CLEANING**

Clean all tools and equipment with water.

**STORAGE**

Store the kit in a cool, dry place out of direct sunlight and where there is no exposure to damp and humidity.

**SAFETY**

Wear gloves when working with this product. Avoid direct skin contact.