

TECHFIN HYDRO-GUARD

Waterproofing Cementitious Sealing Slurry System

Techfin Hydro-guard is a highly elastic, crack bridging, UV stable, tropical grade, waterproof and protective coating system. A two part polymer modified cementitious waterproof mortar sealing slurry consisting of highly flexible liquid polymer, special water repellent admixtures, cements and selected fillers.

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.

BENEFITS:

- Crack bridging up to 1.2mm
- Interior & exterior waterproofing
- Excellent adhesion to various substrates
- Easy to mix, Apply by brush or spray
- Blocks passage of water - seals pores
- Can be applied to wet surfaces or green concrete
- Paintable
- Suitable for potable water contact, Non-toxic and non-tainting

APPLICATIONS

- Under tile waterproofing, bathrooms, balconies
- Parapet walls, fish ponds, flower boxes
- Beams, columns, basements, lift walls, tunnels
- Bridges, Concrete Towers, Silos
- Sewerage tanks, effluent pits
- Subways, manholes, civil structures
- Reservoirs, canals, swimming pools

TECHNICAL DETAILS

Appearance	Concrete Grey
Mixing	As supplied
Setting Time	20-30 min @ 25°C
Over-Coating Time	4-24 hours
Application Temp.	5°C to 35°C
Number of coats	2 coats recommended
Bridging Capability	Maximum 1.2mm cracks
Yield	8.5L per kit
Coverage depending on substrate	
Plastered Wall	30-36 m ² / kit
Wood floated screed	15-18 m ² / kit
Shuttered Concrete	8-10 m ² / kit
Polypropylene membrane covering	6-7 m ² / kit
Toxicity	Non-toxic, non-tainting
Shelf-Life	12 Months
Bond strength EN1542	0.9 N/mm ² @ 20°C
Crack Bridging ASTM C836	1.2 mm @ 20°C
Resistance to water pressure DIN 1048	Positive: 1.2MPa Negative: 0.5 MPa

PACKAGING

Two component kit consisting of 10.2kgs powder and 4,8L liquid.

WATCH POINTS

Techfin Hydro-guard will not withstand movement greater than 1.2mm and is ideally suited for rigid surfaces. Incorporate polyethylene membrane to bridge cracks and gaps > 2mm.

STORAGE

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

DIRECTIONS

Preparation

Surfaces to be treated must be clean, sound and free of dust, oil and grease. It may be necessary to high pressure wash @ 120 bar pressure. 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. Static cracks greater in width than 1.2mm must be chased out, dampened down and repaired with a dry pack consistency of **Techfin Structural Repair Mortar**.

Priming

No priming required. 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. If there is exposed reinforcement within the treatment area, pre-coat with **Techfin Hydro-Guard** where it is exposed, to ensure sound bonding is achieved.

Application

Apply the mixed product with a block brush or quality mohair roller. Spray application is advised for larger areas. Apply two coats minimum with a waiting period of 4-24 hours between coats. Apply the first coat vertically and the second coat in a horizontal direction to eliminate pin-holes. Application thickness should be no more than 2mm. Apply the mixed mortar within 20 minutes after mixing.

Mixing

Mix 1 x 10.2kg bag **Techfin Hydro-guard** to 4.8 L of supplied liquid polymer to produce a suitable brush-on mixture. Using a suitable container, add the powder to the liquid and stir to produce a thick but flowable slurry. 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. **Techfin Hydro-guard** must not dry out too rapidly and should be kept damp for a minimum of 12 hours.

SEALING

Not required. The cured surface may be painted or skimmed over with other decorative finishes.

PRECAUTIONS

- Protect treated areas from mechanical damage by covering with plaster 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.

SAFETY

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

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.