

# TECHFIN SEAL & STRENGTHEN

Acrylic Sealer And Hardener For Weak Concrete

Techfin Seal & Strengthen is a low viscosity, water-based, acrylic polymer in combination with a silicate chemical hardener designed for coating porous and powdering concrete surfaces. It is designed to improve the general abrasion resistance and non-dusting nature of the surface as well as protect and seal the floor surface from dirt and harmful chemical substances.

## BENEFITS:



*Eliminates dusting.*



*Improves wear resistance.*



*Reduces water and oil permeability.*



*Application to new and old floors.*



*Facilitates maintenance and cleaning.*



*Easy to use.*



*Economical.*



*Permanent treatment.*

## TECHNICAL DETAILS

Appearance	Milky white liquid
Components	Single part
Application	Brush or roller
<b>Coverage</b>	
Wood Floated Concrete	3.5 - 5 m <sup>2</sup> / L (2 coats)
Smooth Steel Floated Concrete	5 - 7 m <sup>2</sup> / L (2 coats)
Power Floated Concrete	8 - 10 m <sup>2</sup> / L (1 coat)
<b>PACKAGING</b>	
Techfin Seal & Strengthen is supplied in 5 L, 25 L and 200L drums.	

## APPLICATIONS:

- Concrete surface protection
- Dust proofing of concrete
- Primer sealer for concrete overlays
- Warehousing
- Factories
- Garages
- Walls and sub-grade screeds
- Curing compound for new concrete
- Cementitious repairs

## ACTION

Techfin Seal & Strengthen penetrates and reacts with the free lime produced during cement hydration to form an unbreakable chemical bond. It forms insoluble crystals thus binding the particles together and its pore filling character results in a dense and sealed surface. The acrylic polymer adds further sealing power and protects the surface from physical aggression.

## PRECAUTIONS

### New Concrete

Allow new floors to cure fully (14 days min.) before application. Ensure that the floor is completely clean and dry. Remove all grease, oil, paint and curing compound. The concrete must be porous to accept the treatment and anything that interferes with the porosity must be removed.

### Dense Floors

Hard compacted / power floated surfaces may not have sufficient porosity to allow absorption of the Techfin Seal & Strengthen. Prior to treatment test for absorption of water. If concrete is absorbent, test a small area with neat product to assess penetration efficiency. Then proceed accordingly i.e.: surface preparation may be required. Usually a light surface grind followed by good water dampening is required. The product should then be diluted 50 % with water to increase penetration.

### Porous Floors

Techfin Seal & Strengthen is suitable for floors with excessive porosity which usually require 2 - 4 applications. Again wet the floor before application and dilute the first two coats. Dose the floor until no further penetration of the product is visible. Ensure no excessive surface build-up of product is present. Broom off excess surface pooling and allow to dry.

## OTHER PRECAUTIONS

Take care to protect glass, paintwork, brickwork and furnishings from splashes. Do not use Techfin Seal & Strengthen on friable and loose concrete.

## EQUIPMENT CARE

All equipment should be washed in clean water after use.

## DIRECTIONS

Apply the Techfin Seal & Strengthen by spray, PVA roller or soft broom at a rate of 10 m<sup>2</sup> per liter. Continue brushing into the surface until uniform coverage is obtained. Add extra material if complete absorption takes place. A slippery finish will result at which stage treatment is complete. Some floors require a second or third application, perform this 1 - 2 hours after the first coat.

Apply to saturation point but do not allow product to pool. Once dry, the floor is ready for use. For cementitious overlays pour the mixture onto freshly coated and still wet product for best results within 20 - 30 minutes.

## SPECIFICATION CLAUSE

### Techfin Seal & Strengthen

All concrete, granolithic and screed wearing surfaces shall receive two coats of Techfin Seal & Strengthen as manufactured by Technical Finishes Pty Ltd. Apply the product as specified by the manufacturer.

## STORAGE

Store under cover, out of direct sunlight and protect from extreme temperatures. Failure to comply with storage instructions may result in premature deterioration of the product or packaging. Store in a cool dry place.

## HEALTH AND SAFETY:

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHS Act No.85 of 1993. The finished system is not hazardous to health or the environment.

## 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.