

## Application Guide

### **Recommended Uses**

Armourtech Concrete Sealer is designed for existing concrete and new construction alike. It is ideal for use on driveways, basement walls and floors, concrete floors, pre-cast, pavers, pool decking, stucco, split face block and other cementitious products such as pavers, landscaping concrete, pre-cast concrete, and concrete roof tiles. Armourtech Concrete Sealer can be used in residential, commercial and industrial applications.

### **Surface Preparation**

Testing penetration – Place an eye dropper of water on the concrete surface. If the concrete turns dark and water absorbs into the concrete within 3-4 minutes then it is ok and sealing can proceed.

Surfaces should be clean and free of loose debris, dirt, mildew, oils and grease and efflorescence.

Very smooth troweled tight surfaces may require Grinding or Shot Blasting or Acid etching to aid in penetration, acid etching is **not** recommended as it destroys the  $\text{Ca}(\text{HO})_2$ .

*Should acid etching be used (hydrochloric acid) ensure the concrete is neutralised with Sodium Bicarbonate (baking soda) after etching. Dissolve qty baking soda with water 1kg of baking soda in 20 litres of water allow to settle and drain of the liquid. Spray liquid on concrete and wash out with copious amounts of water.*

Armourtech Concrete Sealer is a waterborne product meaning any grease, oil or petroleum residue including those from certain concrete cleaners will prevent optimum penetration. **RE:** Cleaners, when using petroleum-based or citrus-based concrete cleaner/brighteners a thorough pressure wash is necessary to remove residue for best results.

Armourtech 101 is not designed to seal cracks and these should be addressed before sealing with Armourtech DPS101.

All cracks in concrete including between mortar and concrete blocks should be remedied and repaired before application.

### **Coverage**

Coverage is approximately 5-10m<sup>2</sup> per ltr depending on surface porosity. Due to porosity and the nature of concrete, there are many variables that will determine the amount of coverage. Garage and warehouse floors will get more coverage than landscaping blocks, for instance.

### **Application**

Armourtech Concrete Sealer is usually applied as a single application treatment. Always test a small inconspicuous area prior to application to ensure product effectiveness. The surface may be slightly damp (without the sheen water), but not wet. Armourtech Concrete Sealer should be applied by low-pressure spray Use a **FAN TIP** nozzle not a conical tip, or brush or roller in very porous conditions. On vertical surfaces, start at the bottom and work toward the top. For deeper penetration allow the surface to remain saturated with product for 15-20 minutes. Avoid pooling or puddling during and after application. Once Armourtech Concrete Sealer dries it should not accept any further product, as the surface has been sealed.

**Drying Time:** 3 – 5 hours or once water has evaporated depending on atmospheric conditions. Floor adhesives can then be applied.

### **New Concrete: Use as the Cure & the Sealer**

Ideally, the best time to apply is when bleed water is gone and concrete will withstand the weight of a man. OK to apply anytime after placement. Avoid rain or freezing for 12 hours. Apply by spray with medium saturation, careful not to over apply.

### **Old Concrete: Use as a Penetrating Sealer**

Surfaces must be clean and free of dirt/debris/mildew/oils/grease/efflorescence and other sealers. Seal all cracks prior to use of Armourtech DPS101.

## **Limitations**

- Do not let Armourtech Concrete Sealer Freeze. Store indoors at temperature above 35° Fahrenheit. Surface temperature must be above 35° Fahrenheit during application.
- If you use petroleum or citrus-based concrete cleaners prior to application, a thorough removal/rinsing of oil residue is necessary to ensure proper surface penetration.
- Always test a small inconspicuous area prior to application to ensure product effectiveness.
- Do not apply Armourtech Concrete Sealer when the threat of rain exists within 5 hours of application. Armourtech Concrete Sealer must be allowed to dry. In damp basement applications where pre-existing moisture is not allowed to dry prior to application, Armourtech Concrete Sealer may not set properly. Try to dehumidify first
- A second application of Armourtech Concrete Sealer is unnecessary on most surfaces. Only very porous surfaces may require a second treatment.
- Over application of Armourtech Concrete Sealer does not affect product performance. However, excessive use of product may cause a light chalking effect. This chalking will dissipate with exposure or may be removed by a light pressure wash, scrubbing or stiff broom.
- Do not allow contact with glass or aluminum as it will etch surface.

Armourtech Concrete Sealer is designed to work on porous concrete substrates and will not work on any oil-based product such as asphalt, paints, vinyl and latex emulsions. When penetration is inhibited by oil-based materials, Armourtech Concrete Sealer may lie on the surface forming a slight white chalky appearance. This chalking will dissipate with exposure or may be removed by a light pressure wash, stiff broom or scrubbing. Shelf Life Two (2) Years.

## **Clean Up**

Clean tools and spray equipment with clean warm water.

## **Safety and Environment:**

Armourtech Concrete Sealer is Non-toxic, Non-hazardous and Non-flammable no VOCs (Volatile Organic Compounds) and no Solvents.