

## Water-Tite 101

### CRYSTALLINE CAPILLARY WATERPROOFING

#### PRODUCT DESCRIPTION

PIONEER PRO Water-Tite 101 is a crystalline capillary waterproofing formulation of selected blends of cement, fine quartz sand and active chemical constituents providing a lasting imperviousness to water.

#### FEATURES

- Ready to use, easy to apply
- Very economical
- For internal and external applications
- Durable
- Can be painted over
- For use in contact with potable water
- Excellent adhesion to all cement based substrates

#### APPLICATION

PIONEER PRO Water-Tite 101 can be applied on both new and old structures either on water retaining side or on the negative side. PIONEER PRO Water-Tite 101 is recommended for the following typical applications:

- Water treatment or sewage structures
- Basement walls
- Irrigation of tunnels
- Supporting walls and columns
- Tunnels, silos, water tanks
- Foundation slabs inside
- Underground garages

#### SURFACE PREPARATION

- Concrete surface to be treated must be free and clean of laitance, dirt, paint coating and other foreign matter.
- Remove existing coatings, smooth surfaces or laitance by acid etching, water blasting or sand blasting.
- Structural defects such as cracks, faulty construction joints and honeycombing should be routed out to sound concrete and repaired with PIONEER PRO Concrete Epoxy (see separate data sheet).
- Saturate routed area and leave damp for application of Water-Tite 101.

#### MIXING

##### Slurry Coat

Mix 4.54 Kg can PIONEER PRO Water-Tite 101 with 1.5 liters of clean water or 25 Kg bag with 8.25 liters of water. Mix thoroughly with slow speed drill equipped with recommended mixing paddle until a creamy consistency is

achieved. Allow the mix to rest for 15 minutes to allow for chemical reaction. It should then adhere to the brush without dripping. If mixture thickens, re-stir to reduce consistency. Do not add extra water.

#### APPLICATION

Prior to the application of PIONEER PRO Water-Tite 101, saturate concrete surface with water to promote reaction. PIONEER PRO Water-Tite 101 slurry coat may be applied with a brush or broom. Be sure to work slurry into the openings, rough surfaces, joints and routed out areas. Apply second coat, when required, when first coat has taken an initial set.

#### Dry shake for newly formed concrete:

Use PIONEER PRO Water-Tite 101 as is, directly from the container. Wearing rubber gloves, distribute the powder evenly by hand over freshly poured concrete 1.25 to 1.35kg/m<sup>2</sup> per application before final trowelling works. It is best to distribute the powder at ½ the recommended rate in one direction, and the other half at a right angle to the first application. Release the powder as close to the wet concrete as possible to prevent material from blowing away.

Two applications are recommended with a roughened finish on the first application providing adequate adhesion of the second application. Float slab and trowel to final finish.

#### FINISHING

When the last coat has stiffened, float it to desired texture with a sponge or wood float.

#### CURING AND PROTECTION

Proper curing procedures are important to ensure the durability and quality of the coating. To prevent surface cracking, curing must begin as soon as the PIONEER PRO Water-Tite 101 coating has reached initial set. Moist curing using continuous water spray is recommended. Keep PIONEER PRO Water-Tite 101 treatments moist and cured for a minimum of 48 hours by spraying surfaces with a fine mist of water three times a day for 2 – 3 days. In warmer climates, more frequent spraying may be required.

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### **ESTIMATING DATA**

PIONEER PRO Water-Tite 101 slurry coat :  
1.0-1.3kg/m<sup>2</sup> at 2 coats.

**Note:** Actual coverage rates will depend upon the profile and porosity of the substrate.

### **STORAGE**

PIONEER PRO Water-Tite 101 should be stored in protected dry areas. The shelf life is 12 months in its original unopened packing in a cool ventilated place below 35°C in a shaded dry environment. Do not store in direct sunlight.

### **PRECAUTIONS**

Do not use PIONEER PRO Water-Tite 101 over previous coated surface without proper surface preparation.

Freshly applied PIONEER PRO Water-Tite 101 treatment must be protected from extreme weather conditions such as rain or high temperature for a period of not less than 48 hours after application.

For water retaining structures PIONEER PRO Water-Tite 101 treatment should be cured for fourteen days before filling with liquid.

### **HEALTH AND SAFETY**

Water-Tite 101 may contain chemicals that may cause irritation to the eyes and skin. Goggles, face mask, rubber gloves and long sleeves should be worn when using the products.

### **FIRE**

PIONEER PRO Water-Tite 101 is non-flammable.

### **PACKAGING**

Available in 4.54 Kg can and 25 Kg bag.



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