

## Water-Tite 103

### Premium Flexible Cementitious Waterproofing

#### Product Description

It is a two component, highly flexible cementitious waterproofing membrane. It consists of selected cement blend with well-graded fillers and synthetic resin. It can be applied onto damp substrates by brush, roller or spray.

#### Key Features

- Flexible, durable and weather resistant
- Excellent adhesion to most substrates
- Excellent waterproofing qualities - able to stand high hydrostatic pressure
- Bridge hairline cracks
- Non-toxic - suitable for use in waterproofing of potable water tanks
- Pre-packed - easy to mix and apply
- Can be applied onto damp surface
- Algae and fungus resistant

#### Applications

- Basement walls
- Reservoirs, culverts, planter boxes, potable water tanks, canal, retaining structures, etc
- Swimming pools and features
- Kitchen and toilets
- Domes and concrete structures
- Fire wall

#### Application Procedure

**Surface Preparation:** The substrate must be clean and sound, free of dust and loose particles. Laitance, oil, grease, mould release agents or curing compound must be removed from concrete surface by using wire brush or other means. Ensure sufficient gradient to allow water to run off. It is recommended that a cement and sand fillet be formed on all corners to receive the waterproofing membrane. Prior to application of waterproofing membrane, dampen the substrate with water while ensuring that no water is present on the surface.

#### Method

**Mixing.** Pour liquid part into clean container. Slowly add powder part into the container and mix with a slow speed mechanical



#### Product Specifications / Typical Properties / Physical Characteristics

Table 1: Physical Properties (Uncured)\*

Parameters	Results
Product Type	Cementitious modified copolymer
Mix Components	Part A: Milky-white liquid Part B: Gray powder
Mix Ratio, by weight (Powder: Liquid)	1:1
Mixed Color	Gray
Pot life at 30°C	Approximately 1 hr
Tack-free Time	Approximately 2 hrs
%Solid of Liquid Part	40 - 45%
Specific Gravity of Liquid Part, g/mL	1.00 - 1.03
Viscosity @29°C of Liquid Part, cps	300 - 400 cps
pH of Liquid Part	6 - 8
Coverage	1.75 kg/m <sup>2</sup> at two (2) coats having 1mm thickness

Table 2: Physical Properties (Cured)\*

Parameters	Results
Adhesion on Concrete, psi	180 (substrate-failure)
Tensile Strength, N/mm <sup>2</sup>	>2.00
%Elongation	>100%
Water Absorption Test, 3 days	<0.50%
Water Ponding Test	No water ingress

\*Typical data only. Information on this data should not be used for writing specifications.

mixer until homogeneous and lump free. Allow the mix to stand for 5 minutes and re-stir manually before use.

**Application.** For best results, damp the surface before coating. For horizontal and vertical surface, a roller, a brush or spray gun may be used to apply the slurry. Care must be taken to ensure that air is not entrapped in the membrane. Apply the first coat and work generously to fill all the pores and honeycombs. Allow the membrane to dry approximately 2 to 3 hours prior to application of a second coat. The second coat must be applied crosswise. After applying the second coat of PIONEER PRO Water-Tite 103, allow a minimum curing time interval of 15-72 hours before laying the screed and commencing pond test. Should ponding test exceed 4 hours, a minimum curing time interval of 72 hours is recommended.

**Cleaning.** Clean all tools or equipment used while coating is still in its uncured state. Use water to clean tools and spills. Use lacquer thinner to clean cured liquid part of Water-Tite 103 on tools and equipments.

### Application Equipment

Mechanical Mixer, Roller or Brush

### Packaging

20L Pail

### Storage

Keep container tightly sealed. Store in a cool and dry place away from rain and direct sunlight.

### Shelf Life

12 months based on manufacturing date.

### Health and Safety Precautions

PIONEER PRO Water-Tite 103 should be treated with care. Gloves and goggles should be worn. Any contact to the skin or eyes should be washed off with clean water. Powder products should be handled to minimize dust formation. PIONEER PRO Water-Tite 103 is non-flammable. Keep out of reach of children.

**KEEP OUT OF REACH OF CHILDREN.**

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