

Water-Tite Powerflex

Interior & Exterior Elastometric Coating

Product Description

Pioneer Pro Water-Tite Powerflex is a one-component, flexible, fiber-reinforced polymer emulsion. The polymer base is mixed with cement to produce a flexible waterproofing membrane capable of resisting hydrostatic pressure and bridging hairline cracks.



Key Features

- Easy to apply by brush or roller
- For interior and exterior use
- Good sag resistance and easy to apply, even on vertical surfaces
- Film surface is paintable
- Good crack-bridging properties
- Excellent adhesion on concrete, cement mortars, stone, etc.
- Seals and protects masonry walls against algae and fungus growth
- Protects against concrete decay and corrosive salts
- Improves water impermeability of concrete by 300 to 400%
- Longer service life of waterproofing film

Applications

- Bathroom and wet areas
- Concrete gutters
- Cistern Tanks
- Firewalls
- Basements
- Canopies
- Roof decks
- Colored waterproofing for firewalls and swimming pools
- Glass tile adhesive
- Tile-to-tile adhesion

Product Specifications / Typical Properties / Physical Characteristics

Table 1: Physical Properties (Uncured)*

Parameters	Results
Color of Polymer	White
Color of Mixture	Light gray or white depending on the type of cement used
Polymer-to-Cement Mixing Ratio	1:1 (by weight)
Density of mixed material	1.45 kg/L
Viscosity of Polymer	2500 cps
Solids Content	43%
Pot Life	3 hours
Toxicity	Non-toxic
Flammability	Non-flammable

Table 2: Physical Properties (Cured)*

Parameters	Results
Tensile Strength	1.43 N/mm ²
Elongation at Break	72%
Coverage	4 sqm per kg emulsion @ 2 coats

Note: Typical data only. Information on this data sheet should not be used for writing specifications.

Application Procedure

Surface Preparation

- Surfaces to be treated must be free from dust, oil, grease, paint, 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.
- Saturate route area and leave damp for application of Pioneer Pro Water-Tite Powerflex.
- Brush on one coat Powerflex Primer (1 part Powerflex: 2 parts water) to the substrate to ensure all pores are sealed off.

Mixing.

Once the primed surface is dry to touch, mix Powerflex and Cement in a one-to-one ratio using a hand-held mixing drill.

Application.

It is recommended that the area to be treated is shaded from direct sunlight and wind to ensure proper curing. Apply the first coat on the prepared substrate by brush and allow it to cure for 1-2 hours. Prepare a second mixture and apply the second mixture as a second coat using a roller, in a perpendicular direction to the first coat. Let this cure for 12-24 hours depending on the temperature before flood testing. A concrete topping is recommended for exposed areas subject to medium traffic (e.g. roof decks, etc.) to help extend the protection of the waterproofing material. Allow the material to cure for seven days before applying a compatible paint finish, if desired.

Curing.

Proper curing procedures are important to ensure the durability and quality of the coating. To prevent surface cracking, do not apply the product under direct sunlight conditions. Freshly applied Pioneer Pro Water-Tite Powerflex 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 Powerflex treatment should be cured for fourteen days before filling with liquid.

Cleaning.

Clean all tools and equipment used while coating is still in its uncured state. Use water to clean tools and spills.

Application Equipment

- Brush or roller
- Hand-held mixing drill, wing-type paddle is recommended

Packaging

- 4 L pail
- 16 L pail

Storage

Store in sealed containers in a cool, dry, ventilated place. Keep away from rain and direct sunlight.

Shelf Life

12 months from the manufacturing date.

Health and Safety Precautions

Pioneer Pro Water-Tite Powerflex may contain chemicals that may cause irritation to the skin and eyes. Personal protective equipment must be worn when using the product. Any contact to the skin or eyes should be washed off for at least 15 minutes under running water. Upon accidental release, avoid contact with material. Transfer material to appropriate container for disposal. Try to prevent the material from entering drains or water courses. Pioneer Pro Water-Tite Powerflex is non-flammable. Keep out of reach of children

KEEP OUT OF REACH OF CHILDREN.**Warranty and Disclaimers**

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