



TANK SHIELD

PW

2 PACK CEMENTITIOUS WATERPROOF SLURRY COATING FOR POTABLE WATER

Description

TANK SHIELD PW is a premium quality, two component polymer modified cementitious waterproof non-toxic slurry mortar for potable water application. It consists of a special variety liquid polymer & cement based mix incorporating graded aggregates & additives. It is applied to concrete & mortar. On curing it forms an excellent waterproof & protective elastomeric layer over the surface & thus prevent water infiltration.

Application Areas

Tank Shield PW is used for:

- ❖ Potable water tanks & swimming pools
- ❖ Exterior waterproofing of basement retaining walls in new construction & refurbishment
- ❖ Interior & exterior waterproofing & damp-proofing of old or new concrete
- ❖ Bridge decks, canals, sewage treatment areas etc.
- ❖ Waterproof bottom coating for tiles, granite, marble & other natural stones

Features & Benefits

- Non-toxic – Can be used for potable water containing areas
- Waterproofing – Waterproof for concrete structures
- Usability – Pre-batched components - brushable consistency - mix & apply easily
- Water permeability – Remarkable resistance towards ingress of water
- Adhesion – Excellent adhesion to concrete, natural & artificial stone
- Temperature Resistance – Enhanced resistance to freeze-thaw cycles & de-icing salts
- Slip Resistance – Imparts slip resistance to the applied surface
- Flexibility – Provides flexible coating
- Corrosion Protection – Non corrosive to steel & iron

Method of Application

1. Surface Preparation:

- The surface to be applied should be clean & sound, free from any kind of contamination, dirt etc. Thoroughly wire brush the surface & clean the dust by air compressor or by water jetting.
- Oil & grease must be removed using degreasing solvents.
- Any damaged surface must be repaired by using crack fillers or polymer modified repair mortar like ADVANCED LATEX PLUS.
- Finally the substrate must be properly pre-wetted to a saturated surface-dry condition.

2. Mixing:

- Shake well the liquid component to a homogenous milky color. Transfer entire quantity of liquid component before mixing into a suitable clean mixing container, gradually start addition of powder component under

constant mixing with a stirrer using a pneumatic or electric power tool (1kw) at slow speed at 250 – 300 rpm for 3- 5 minutes to a homogeneous & uniform free flowing slurry.

3. Application:

- Concrete slabs or roof slabs

Two coat of mixed slurry to be applied to the set concrete @ 1.7 – 2.1 kg/m² by a masonry brush, roller or appropriate power spray equipment.

As a slurry coat

Apply slurry coat of mixed material for two coats at a coverage rate of 1.5 kg/m² over the set concrete slab by a masonry brush or appropriate power spray equipment..

- Water tanks and Swimming pools

Two coat of Tank Shield PW applied @ 1.6 – 1.8 kg/m² per coat by a masonry brush or an appropriate power spray equipment.

- Pile Heads

Two coats of mixed slurry to be applied on to the pile head @ 0.8 – 1.0 kg/m² first coat and 1.2 - 1.5 kg/m² second coat either by a masonry brush or by appropriate power spray equipment.

- Marbles/Stones

It is recommended to apply one coat at the bottom side of the marble @ 1.5 mm thick at a coverage of approximately 1.7 - 2 kg/m².

Consumption of Tank Shield PW is dependent on the substrate condition & profile along with thickness of the layer applied, All applications where two coats are specified, the second coat shall be applied when the first coat is completely dried. Over coating time for the second coat is (4 – 6) hours. For overcoating, allow the second coat to harden for at least 24 hours prior to over coating. For further top coat application with other product, a butter coat (slurry consistency) of ADVANCED LATEX PLUS is recommended. The other product needs to be applied when the ADVANCED LATEX PLUS application is tacky. For further details, contact company representative.

The treated area should be protected from direct sunlight and to be damp cured by covering with damp hessian or similar system.

Mixing Ratio

- o **Part A (Liquid) : Part B (Powder) = Approx. 1:1.5 (by vol.) ; 1:2 (by wt.)**

Usage Precautions

- o Do not mix part quantities.
- o Do not add extra water for dilution.
- o Always add powder to the liquid, vice-versa not recommended.
- o Do not add cement or sand in the powder component at site.
- o Do not expose the applied substrate to water until it is completely cured.
- o Must be protected from direct sunlight, foot traffic etc. at green stage of application.

Technical Information

Appearance &
Colors

Part A : White

Liquid Part A+B :

Grey slurry

Toxicity

[Global Migration Test as per US FDA – 175.300] Non-toxic

Coverage

- As mentioned in the Method of Application.

Shelf Life

- Best before 12 months from date of production, if stored properly in unopened, undamaged, original packaging in dry conditions at (5 - 30)⁰C with protection from direct sunlight & frost.

Storage

- Store under cover, away from direct sunlight & protect from extreme environment.
- In hot temperature conditions, it must be stored in a temperature controlled atmosphere around 30⁰C

Packaging

- 15 Kgs.

Health & Safety Precautions

- TANK SHIELD PW is alkaline & contact with skin or eyes should be avoided.
- While using TANK SHIELD PW use rubber hand gloves, dust mask & safety goggles.
- In case of any contact to eyes should be washed immediately with clean water & seek medical advice.