



## Wall Shield 2K

Two pack waterproof slurry coating for vertical application

Product composition: Wall Shield 2K is a two component acrylic polymer modified white cement based waterproof slurry coating consisting of water insoluble crystalline micro structure which acts by deep penetration within the interstices of cementitious matrix. The product is for vertical application on concrete & plaster surfaces. It can be used for both positive and negative side waterproofing due to its excellent resistance to hydrostatic pressure and also its outstanding bonding.

### USP

- **Usability** – Pre-batched components - slurry/brushable consistency - mix & apply easily
- **Self Priming** – In case of bare concrete/plaster the same product can be used as primer on dilution with water
- **Water permeability** – Remarkable resistance towards positive & negative hydrostatic pressure up to 5 bar.
- **Adhesion** – Excellent adhesion to concrete, natural/ artificial stone & with WB paint for top coat.
- **Damp proofing** – The semi rigid coating is Water proof & hence damp proof as well.
- **High coverage** – About 12 sqft/kg in 2 coats which is more than similar available liquid applied membrane system.
- **Crystalline action**- It imparts integral water tightness to the substrate through its continuous crystallization action in presence of dampness.
- **Aesthetic** – Provide a smooth, almost seamless, off white colored look after curing. This would help to maintain the brightness of the top coat paint on it.
- **Anticarbonation & anti efflorescence** – Provides lasting protection against carbonation & efflorescence.

### Usage area

Wall Shield 2K is used for:

- Exterior waterproofing of old or new concrete/masonry wall
- Damp proofing on interior walls of a old or new construction
- Lightweight waterproof bottom coating for interior tiles, granite, marble & other natural stones

## DIRECTIONS FOR USE

### 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.

### 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. Although not recommended, but in unavoidable situation, part mixing can be done. In that case, the powder component must be mixed homogeneously by shaking the bag vigorously, before opening.

## Application

### On bare concrete/Plaster

- Primer Coat [**Liquid : Powder : Water = 1 : 2 : 1 (by weight)**]

One coat of primer to be applied on substrate by brush at a coverage rate of around 25 ft<sup>2</sup>/kg. Allow complete drying prior to apply the next coat.

- Waterproof Coat [**Liquid : Powder = 1 : 2 (by weight)**]

Apply one slurry coat of the mixed material at a rate of around 20 ft<sup>2</sup>/kg/coat over the primer by hard masonry brush. Further topcoat to be applied after overnight drying at the same rate .

### On white cemented or putty applied Plaster

- Waterproof Coat [**Liquid : Powder = 1 : 2 (by weight)**]

Apply one slurry coat of the mixed material at a rate of around 20 ft<sup>2</sup>/kg/coat over the surface by hard masonry brush. Further topcoat can be applied after overnight drying.

Consumption of Wall Shield 2K is dependent on the substrate roughness, surface profile, thickness of the layer applied, nature of brush, efficiency of the applicator etc. The treated area should be protected from direct sunlight and to be damp cured by covering with damp hessian or similar system.

### Mixing Ratio

Part A (Liquid) : Part B (Powder) = 1:2 (by wt.) ; approx. 1:1.5 (by vol.)

## TECHNICAL DATA

1	<b>Appearance &amp; Colors</b>	Part A : White Liquid Part B : White powder Part A+B : White slurry	9	<b>Coverage</b>	As mentioned in the Method of Application.
2	<b>Mixed Density @25°C</b>	Around 1.74 g/cc	10	<b>Shelf Life</b>	Best before 12 months from date of production, if stored properly in unopened, undamaged, original packaging in dry conditions at (5 - 30)°C with protection from direct sunlight & frost.
3	<b>Surface dry time</b>	45 minutes – 1 hour			
4	<b>Cure time after 2nd coat</b>	4 – 6 days			
5	<b>Positive hydrostatic pressure, DIN 1048</b>	Passes 5 bar	11	<b>Storage</b>	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 30°C
6	<b>Negative hydrostatic pressure, DIN 1048</b>	Passes 4 bar			
7	<b>Adhesion strength on concrete slab</b>	0.8 Mpa			
8	<b>Crack bridging, ASTM D 4548</b>	Upto 1.2 mm	12	<b>Packs</b>	3 kg., 15 Kgs.

## PRECAUTIONS

- Do not mix part quantities. • Do not add extra water for dilution. • Always add powder to the liquid, vice-versa is not recommended. • Do not expose the applied substrate to water until it is complete cured.
- Must be protected from direct sunlight, at green stage of application.

## Health & Safety Precautions

- While using Wall Shield 2K use rubber hand gloves, dust mask & safety goggles.
- Wall Shield 2K is alkaline & contact with skin or eyes should be avoided.
- In case of any contact to eyes should be washed immediately with clean water & seek medical advice.
- Kindly follow the MSDS of Wall Shield 2K for additional required safety measure and precautions.

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