



## POLYALK WCR (L)

### Waterproofing by Crystallization

#### DESCRIPTION

**POLYALK WCR (L)** is a single component, economical, light brown liquid waterproofing system. When mixed with water and applied as a thin coat, it penetrates into the pores & capillaries of concrete. The alkali silicates combine with water & free calcium particles to form crystals which block the pores and capillaries.

#### USES

- For waterproofing of water tanks, reservoirs, precast concrete tunnels, underground vaults, foundations and sewage treatment works.
- It is applied as surface treatment on concrete, brickwork and blockwork.

#### ADVANTAGES

- Deep penetrating pore action for long lasting protection.
- Becomes an integral part of concrete, so cannot puncture or tear.
- Provides waterproofing, whether applied internally or externally.
- Durable and provides a highly efficient barrier to water and salt ingress.
- Non-toxic and good chemical resistance.
- Can be used as a base coat for any type of overcoat.

#### INSTRUCTIONS FOR USE

##### Surface Preparation

- Preparation of the surface to be waterproofed is very important.
- Clean the concrete surface to be treated, so that it has an open capillary system.
- Repair and make good any faulty concrete in the form of cracks, honey combing etc.
- Fill hairline cracks with POLYFILL AR (Refer datasheet).
- Fill large cracks with a mortar consisting of POLYALK EP (Refer datasheet).

- Cure the repaired cracks as per usual norms.
- Remove all curing compounds and sealers.
- Scrub and clean the surface.
- Remove laitance, dirt, paint, loose flakes or particles or other foreign matter etc using a vacuum cleaner or high pressure water jet or wet sandblast or wire brush.
- Ensure that the concrete surface possesses an open surface texture.
- Wet the surface 24 hours prior to the application of POLYALK WCR (L)
- Ensure that the concrete surface is damp but not wet.
- Remove all excess surface water.

#### Dilution

- Mix 0.25 Litre POLYALK WCR (L) with 2.75 Litre of clean water using a slow speed stirrer / mixer. Mix for 3 to 5 minutes to get a uniform, lump free and brushable, slurry consistency.
- Stir frequently. If the mixture starts to set, do not add more water, simply remix to restore workability.

#### Application

- Apply the diluted POLYALK WCR (L) to the damp surface using a semi-stiff bristle brush, janitor's broom (for large horizontal applications) or with specialized spray equipment.
- 3.0 Litre of diluted solution prepared as above, is sufficient to cover an area of 10 M<sup>2</sup>
- Allow sufficient time, a minimum 4-6 hours for reaction and curing.
- One coat should have a thickness of less than 1.5 mm.
- When a second coat is required, apply similarly, after the first coat has reached an initial set but is still 'green' (within 24 hours).
- Do not apply in rain or during freezing conditions.



### Curing

- Keep the treated areas continuously damp for 7-14 days without any break in the curing cycle.
- Cure the coating by sprinkling water three times a day on the vertical surface (external walls) and using moist gunny bags on the horizontal surface (terraces).
- Protect the surface from direct sunlight, wind and frost by covering it with polythene sheets or damp hessian or similar material.
- If excess white crystals are formed at the applied surface, wash it with water.

### COVERAGE

- 10 M<sup>2</sup> per 0.250 litre of POLYALK WCR (L), for a single coat when applied by brush, or spray.

### PACKING

- 20 Kg.

### STORAGE & SHELF LIFE

- 12 months when stored in a cool & dry place; away from direct sunlight, in original sealed packing.



#### DISCLAIMER

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