

POLYALK WCR

WATERPROOFING BY CRYSTALLIZATION

DESCRIPTION

POLYALK WCR is an economical, waterproofing system, manufactured in the form of dry powder. It is blend of Portland cement, very fine treated silica sand and various active special chemicals. **POLYALK WCR**, when mixed water and applied as a slurry, penetrates in pores & capillary of concrete. The alkali silicates combine with the water & free calcium particles form crystals. Once the crystals have formed, they block the pores and capillaries. It is applied as surface treatment on concrete, brickwork and blockwork.

USES

It can be used for waterproofing of:

- Water tanks
- Reservoirs, Precast concrete
- Tunnels
- Underground Vaults
- Foundations
- Sewage treatment works

ADVANTAGES

- It can withstand up to 70 mm hydrostatic pressure.
- It becomes integral part of concrete, so cannot puncture or tear.
- Provides waterproofing, whether applied internally and externally.
- Durable - lasts as long as the concrete.
- Excellent chemical resistance.
- Non toxic.

CONFORMANCE

- Conforms to - U. S. Army Corps of Engineers CRD-C- 48-73 "Permeability of Concrete" ASTM C 267 -77 - "Chemical Resistance of mortars".

INSTRUCTIONS FOR USE

Surface Preparation

- Clean the concrete surface to be treated, so that it has an 'open capillary system'. Chase out, repair and make good any faulty concrete in the form of cracks and honey combing.
- Fill the hairline cracks with POLYFILL AR & fill the large cracks with POLYALK EP.
- Remove laitance, dirt, paints or other foreign matter etc by means of high pressure water jet, wet sandblast or wire brush.
- Wet the surface prior to application.
- The concrete surface must be damp and not wet, hence remove excess surface water.

Mixing

- For application as slurry, mix one bag of 25 Kg of POLYALK WCR with 7 litre of clean water using drill type stirrer. (Mixed Polyalk WCR should have slurry consistency. It may require 7-9 litres water per 25 Kg.).
- Mix only as much material as can be used within 30 minutes.
- Stir frequently.
- If the mixture starts to set, do not add more water, simply remix to restore workability.

Application

- Apply POLYALK WCR with a semi-stiff bristle brush, janitor's broom (for large horizontal applications) or with specialized spray equipment.
- One coat should have a thickness of less than 1.5 mm.
- When second coat is required, it should be applied after the first coat has reached an initial set but is still 'green' (before 24 hours). POLYALK WCR cannot be applied in rain or during freezing condition.

COVERAGE

- 1 M² per 0.75 Kg for first coat and 1 M² per Kg for second coat, when applied by brush or spray.

PACKING

- 25 Kg HDPE bags.

STORAGE & SHELF LIFE

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

HAZARDS IDENTIFICATION

Health hazards: POLYALK WCR is non-toxic, non-hazardous. Wear gloves and goggles as usual precaution for cementitious material.

FIRST AID MEASURES

- Skin contact: Immediately wash thoroughly with soap and water.
- Inhalation: Remove to open air. Seek medical attention.
- Contact with eyes: Immediately wash under running water with eyelids open for at least 15 minutes. Seek medical attention.
- Ingestion: Rinse mouth thoroughly and drink plenty of water. Seek medical attention.

ACCIDENTAL RELEASE MEASURES

- Environment Care: Clean small spillages immediately with water. Contain large spillages with suitable absorbent materials.
- Dispose the waste water/absorbent material in accordance with local regulations.

QUALITY ASSURANCE

All products are manufactured under a Quality Management System for Design, Manufacturing and Selling of Construction Chemicals as per the standards of ISO 9001:2008.

DISCLAIMER:

This information is accurate and reliable to the best of the knowledge. It is meant as a guideline only. Sunanda Speciality Coatings Pvt. Ltd. (SSCPL) cannot give any guarantees under any circumstances for the results, or assume any obligation or liability in connection with the use of this information. It is recommended that the product be tested to determine its suitability for specific applications. Since, SSCPL has no control over how others may use its products; it is recommended that the Specifier, Architect, Engineer, Contractor and Owner assume all the responsibilities in connection therewith.