

POLYALK EP

High Performance Acrylic Polymer for Mortar modification

DESCRIPTION

POLYALK EP is a polymeric formulation that strengthens and modifies the microstructure of cement based hydrated products by forming a polymeric spatial network in its voids, complementing the cement paste characteristics.

USES

1. Repair of RCC members, water tanks, industrial floors.
2. Grouting of RCC members
3. Finish plastering for brick and block work.
4. Heritage structures rehabilitation.
5. Staircase steps retrofitting, foundation grouting
6. Pipe joints – new and repaired.

ADVANTAGES

1. **Polyalk EP** increases Interfacial adhesion, Water impermeability Tensile and flexural strength
2. Compensates for volume changes due to shrinkage.

DIRECTIONS FOR USE

POLYALK EP as POLYMER CEMENT BONDING COAT (PCBC)

1. Take 0.5 part fresh cement, 1 part **POLYALK EP** (by weight). Mix thoroughly preferably using a mechanical mixer. Slurry of a consistency easily

applicable by brush is ready for use as a bonding material.

2. In special cases this composition may be modified by consulting CMCD
3. Clean the surface on which the bonding coat is to be applied with a water jet approximately 24 hrs prior to application.
4. Apply the bonding coat on the cleaned RCC surface by brush taking care to avoid pinholes.
5. Immediately after application of the slurry on the requisite surface, place the next screed or mortar etc. that is to come over it “wet on wet” application.

Coverage : For Bonding Coat – 35 to 40 ft² / Kg

POLYALK EP as POLYMER MODIFIED CEMENT MORTAR (PMCM)

1. Take 1 Kg **POLYALK EP**, 5 kg fresh Cement, 15 Kg Quartz sand (graded). (Polymer : Cement: Quartz Sand ratio is 1:5:15). This is a globally recommended composition. However, the proportion can be modified based on Consultant's recommendations.
2. First dry mix the cement and graded sand in a mixer
3. Mix **POLYALK EP** with the premixed cement-sand in the mixer.

4. Mix for atleast 3 minutes. A mechanical mixer with a specially designed stirrer may be conveniently used.
5. Add requisite quantity of water to attain dough like consistency so that it can be hand packed. The mortar is now ready for use.

POLYALK EP as POLYMER RICH CEMENT MORTAR (PRCM)

1. Take 2 Kg POLYALK EP, 5 Kg fresh cement and 15 Kg graded quartz sand (i.e in the ratio of 2:5:15)
2. Mix the three ingredients (without addition of any water) preferably in a mechanical mixer, till a soft mix of uniform consistency is formed.
3. A mix with this proportion has the required strength and flexibility suitable for filling cracks effectively.

Yield : For Mortars 21-22 Kg mix yields 0.01M³ or 10 L approximately.

POLYALK EP as POLYMER CEMENT GROUT (PCG)

1. Take 1 Kg **POLYALK EP**, 3 Kg fresh cement and 2 Kg water (i.e in the ratio of 1:3:2) First mix **POLYALK EP** and water.
2. Add this to the cement using a mechanical mixer till a slurry of uniform consistency is formed.
3. Depending upon various needs of grout application, the above proportion of **POLYALK EP** may be modified by consulting CMCD.

Curing

24 hours after application, cure by a fine spray of water for at least seven days.

Precautions

1. Prepare only as much quantity as can be used in 30 minutes.
2. Fresh cement should be used.
3. Clean all tools with water immediately after use.

PACKING:

1, 5, 20 kgs. HDPE containers

STORAGE:

It has a shelf life of 12 months when stored in original container in a cool, dry place.

HAZARDS IDENTIFICATION

Health hazards: No particular hazard known. If the product spills on to the skin and dries up, some irritation may occur.

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



SUNANDA

SPECIALITY COATINGS PVT.LTD
AN ISO 9001:2008 COMPANY

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:
2000.



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.