EPO CEMENT COAT

Cementitious Acrylic Polymer Modified UV resistant, Waterproof Protective Coating

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DESCRIPTION

EPO CEMENT COAT is a two component cementitious UV resistant water proof protective coating. This product consisting of “Part A” a blend of liquid acrylic latex copolymers and “Part B” cementitious waterproofing powder. Both products part “A:’ and Part “B” are mixed at the job site and applied with a brush or trowel.

USES

- As UV resistant exterior protective coating for water tanks
- As protection to concrete surfaces, water tanks from carbonation and chloride attack.
- As waterproofing coating for concrete slabs (roofs, balcony, floors, kitchen floors, bathrooms under tiling etc.)
- As waterproofing coating for sea-water, swimming pools and water retaining structures.
- As protective coating for underground structural concrete.
- As general-purpose thick coating to ensure water tightness of the structure.
- As coating for sewage treatment plants.

ADVANTAGES

- Flexible, with thermal expansion similar to concrete.
- Excellent barrier to carbon dioxide, chloride and sulphate ions.
- High resistance to the effect of long-term weathering, durable in all climate conditions including UV attack.
- Allows water vapour to escape from the structure.
- Waterproof-suitable for water retaining structures.
- Nontoxic - ideal for potable water tanks.
- Excellent bond to concrete and masonry.
- Good crack accommodation capacity.
- Minimum surface preparation needed and low labour costs.

PRODUCT DATA

Form	Part A - White Liquid Part B - Dry powder
Packing	Part B - 20 Kg Kraft Bag Part A - 5 Kg Can
Consumption	1.5 – 2 Kg/m^2 (for single layer in bush application)
Shelf Life	12 months when stored dry conditions at moderate temperature and humidity.

TECHNICAL SPECIFICATION

Test Name	Standard	Result
Mix Density	ASTM C 138	2.1 ± 0.10 g/cm^3
Compressive Strength 7 days 28 days	ASTM C 579	 > 12.0 MPa > 18.0 MPa
Flexural Strength 28 days	ASTM C 348	> 5.0 MPa
Tensile Strength 28 days	ASTM C 307	> 2.0 MPa
Pull off adhesion/Bond Strength 7 Days	ASTM C 321	> 1.0 N/mm^2
Crack Bridging Ability	ASTM C 836	Good
Effects of potable water / Microbiological growth	BS 6920	Pass
Water Penetration	ASTM E 514	Pass

Ver 02/20

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ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

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APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Typically concrete surfaces can be cleaned using high pressure water jet or grit blasting or by proper wire brushing. Spalled surfaces or those containing large blow holes, cracks and other such defects should be repaired using **EPO GULF** concrete repair mortars.

For further advice on suitable repair mortars, contact **EPO GULF** Technical department.

MIXING

EPO CEMENT COAT is supplied in pre-measured units and should be mixed on the site using clean plastic pails. Gradually add the dry powder (Part B) to the liquid (Part A) and mix using a slow speed electrical drill fitted with mixing paddle.

Do not mix more material than can be utilized within 1 hours' time. For small size mixes, use 4 part of powder for 1 part of liquid. Mix thoroughly and keep mixed during application.

APPLICATION

Apply properly mixed **EPO CEMENT COAT** whilst the concrete surface is damp. Use a stiff bristle brush or trowel. Install in 2 coats, a membrane of thickness not less than 1.5mm and do not exceed a thickness of 4mm (apply in 3 to 4 coats).

If **EPO CEMENT COAT** is used in areas that will be walked on or if required to toughen the coating applied then use of fiberglass or other reinforcing fabric is recommended. This is pressed into position whilst the first coat is still tacky and then followed by a full second coat.

Note: In hot weather conditions or in order to improve brushability, up to 2% (i.e. 500ml). Water may be additionally added per pack.

Curing Period: There is no need for a curing aid, it is important that applied surface is allowed to cure on its own for at least 7 days at 30ºC and above or 14 days at 20ºC or below. Any testing (if required) should be carried out after the curing period.

Note: If **EPO CEMENT COAT** is used in tanking situations it is preferable to wash down the surface with water after the curing period and then put into use.

COVERAGE

1 full pack covers about 6 to 8 square meters at 2 mm thickness (2 coat applications at 1mm thickness /coat)

PRECAUTION

Cleaning: All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.

Protection: All works must be protected from rain and frost until fully hardened. It is recommended to Protect with polyethylene sheeting or similar.

PERFORMANCE STANDARDS

Complies with **ASTM E 514, ASTM C 579, ASTM C 836 & ASTM C 321**

HEALTH AND SAFETY

EPO CEMENT COAT is nontoxic but is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.

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