



POLYCOTE WH CRETE

Single component 100 % acrylic modified waterproofing system

Description

POLYCOTE WH CRETE is formulated to be mixed with OP cement on site which ultimately increases waterproofing properties the cement composition then simply applied over concrete with the help of brush or masonry surfaces to provide an effective waterproof membrane. It creates excellent bonding with the concrete surface which makes it to bind fresh concrete placed over harden concrete. When mixed with cement and applied surface it creates strong rigid layer resistance to weather.

Advantages

- Non - toxic, non-flammable and user friendly
- Can be used in portable water tank also
- Provides a tough, impermeable waterproof membrane
- Can be applied by brush, on horizontal and vertical surfaces
- Excellent adhesion to concrete and masonry surfaces
- Protects concrete and mortar from natural elements such as wind, rain, sunlight
- Breathable - allows inside water vapor to escape
- Excellent result on microbial resistance

Uses

- Roofs, terraces, sunken slab, basement and balconies
- Swimming pools and fountains
- Reservoirs and channels
- End walls subjected to rain and sewage pipes
- Concrete protection against corrosion and efflorescence
- Bonding agent for hard to fresh concrete
- Airport aprons, runway, taxiways, Bridge deck, parking garages and the areas with heavy traffic

Compliance standard

- ASTM C1202, IS 2645:2003
- WRAS - "Suitable for use in contact with portable water" - BS 6920: 2000

Technical Information

PROPERTIES	RESULTS
Appearance	White liquid
Water absorption	<0.1% @ 24 hours
pH	9 to 10
Pot life @30°C	30 min
Solid content	30 to 32 %
toxicity	Non toxic
Compressive strength	70 to 90 N/mm ² @ 28 days
Abrasion resistance	<1%
Bond strength of concrete	Approx. 1 N/mm ²

Application Procedure

1. Application as waterproofing system:

- Remove all dust, laitance or debris the surface must also be free from oil, grease, wax or any other form of foreign matter which might affect adhesion.
- The surface should be primed with POLYCOTE WH CRETE as follows:
1 part of POLYCOTE WH CRETE: 2 parts of Water: 4 parts of Cement mix properly and prime the substrate. It will cover an area of 16-17m².
- Topcoat shall be mixed with cement in ratio 1:2 respectively to obtain uniform and consistent slurry avoiding any lump formation
- Stir the material till the entire quantity is applied, so that solids do not settle at the bottom of the container.

2. Application as surface paint:

- Surface preparation should be done as above mentioned
Mix 6 to 8% of POLYCOTE WH CRETE with weight of OP cement and apply using brush.
- Apply second coat after 2 hours of application of 1st coat.

3. Application patching mortar:

- Mix 5 to 6 liter of POLYCOTE WH CRETE with 50 Kg of OPC and fill the voids and rough surface to make it smooth and levelled.

Surface application	Mixing ratio
Waterproofing coating	2:1 (cement : POLYCOTE WH CRETE)
Cement surface paint	6 to 8 % of cement
Patching mortar	5 to 6 litre per 50 Kg cement
Hard to fresh concrete bond	1:1 (cement : POLYCOTE WH CRETE)

Coverage

- Priming coat: 16-17 m²/L (1 part of POLYCOTE WH CRETE: 2 parts of Water: 4 parts of Cement)
Topcoat - 4.5 - 5.0m²/Lit./ coat (2:1 cement: POLYCOTE WH CRETE)
(However the practical consumption varies depending on the texture and porosity of the surface and the application thickness.)

Curing

- Proper curing practice should be performed after 72 hours with moist wet cloth or water spraying.

Packaging

- Available in 125ml, 250ml, 500ml, 1, 5, 20, 50, and 200 liter packs.

Storage

- Minimum of 12 months self-life if kept under room temperature (i.e. 27°C).

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