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CONCRETE ADMIXTURE



POLYCOTE CWP ADMIX (L)

Crystalline waterproofing admixture for concrete & mortars

Description

POLYCOTE CWP ADMIX (L) crystalline waterproofing liquid admixture is an integral crystalline capillary waterproofing admixture for concrete. These active chemicals react with the moisture in fresh concrete with the by products of cement hydration to cause a reaction, which generates an insoluble crystalline deposit throughout the pores and capillary tracts of the concrete.

Advantages

- Reduces penetration of water and other liquids
- Can seal hairline cracks up to 0.4 mm & resists positive and negative side hydrostatic pressure
- Protects against sewage and industrial wastes
- Less expensive than traditional methods added to the concrete at time of batching and therefore is not subject to climatic restraints
- It is compatible with most of concrete admixture

Uses

- Building Basement and foundations Sewage and water treatment plants
- Highways, dams & canals
- Tunnels, Harbors and subway systems
- Water reservoirs ,Concrete pipes, Parking structures, Pre- Cast, Cast-in-Place and Shotcrete applications
- Swimming pools, Retaining walls & sea defense walls, Jetty

Compliance standard

- IS 2645:2003, DIN1048 part 5

Technical Information

PROPERTIES	RESULTS
Appearance	Brown Liquid
Density in g/cm ³	1.15 to 1.20 @25°C
pH Value	7 to 8
Water Permiability Co-efficient (DIN 1048 Part 5)	5×10^{-13} to 1.3×10^{-13} m/s/Pa
Water Penetration	Reduction upto 30 to 35% relative to untreated concrete mixture
Workability	POLYCOTE CWP ADMIX has little or no effect on workability
Setting time of concrete	Relative to untreated concrete mixture

Method of Application

- Stir POLYCOTE CWP ADMIX (L) well before use.
- The addition of a concrete admixture is necessary as per mix design when using Portland Cement OPC 53 grade from the Procrete / Plastcone products range is advised to achieve minimum water/cement ratio.
- As a guide, a dosage range of 1% to 2% of cementitious content is recommended for best result trial and error method should be applicable as per mix design requirement.
- For addition to ready mix concrete, a typical dosage of 5kg per cubic meter of concrete is best recommended.
- If the material was stored at temperatures below + 5°C crystals may form. The product is suitable for usage again after stirring or homogenizing.
- Ensure complete curing with a REDICURE WB E curing compound.

Grade of concrete : M30

W/C : 0.42

Cement type : OPC 53

Aggregate size : Max 20

Target mean strength after 28 days : 38.25 N/mm² Exposure condition : Severe

Exposure condition : Severe

Properties	%	By weight in Kg/m ³
Cement	-	420
Crushed sand	43	831
Water	-	176
PLASTCONE HS200 N	0.8	3.360
POLYCOTE CWP-ADMIX (L)	2.0	8.400

- **Note:** The above table shows mix design which is created on the basis trial and error method carried under lab conditions which may vary according to environment conditions.

Annotation

- Concrete modified with POLYCOTE CWP ADMIX (L) may tend to effloresce depending on the composition.
- Suitability tests accord to valid standards and norms have to be carried out prior to application.
- Aggregates must have a continuous sieve- line.
- Concrete, modified with POLYCOTE CWP ADMIX (L) must be produced, placed and finished within workability life.
- POLYCOTE CWP ADMIX (L) is non-corrosive and has no adverse effects on there-enforcement.
- It is rarely possible that POLYCOTE CWP ADMIX (L) influences the setting of the concrete

Packaging

- POLYCOTE CWP ADMIX (L) is supplied in 200kg container

Storage

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

For selection of admixture

- As per your project please visit our smart store in www.redwop.net

Note: All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary according to trails and quality of material availability.

REDWOP CHEMICALS PVT. LTD.

Head office: 2nd Floor, Pearl plaza Complex, B/S GT Sheth School, Near KKV Hall, 150ft Ring Road, Rajkot- Pin.360005 Gujarat, India.

✉ info@redwop.net

🌐 www.redwop.net

☎ +91 97246 55551

☎ +91 281 2576664