



PolySeal CWP

Crystalline Waterproofing

DESCRIPTION

PolySeal CWP is crystalline waterproofing slurry system for concrete substrates. PolySeal CWP is economic and easy to apply. PolySeal CWP becomes integral part of concrete. PolySeal CWP is equally strong against negative side water pressure. PolySeal CWP creates a reactive layer inside the concrete that allows the structure to self heal shrinkage cracks under concrete with water.

TECHNICAL DATA

Appearance	Grey Powder	Chloride Ions, %	< 0.04
Mixing ratio (PolySeal CWP : Water)	100 : 23 100 : 28	Substrate Temperature	5 - 35 °C
By weight		Restrained Shrinkage	2.80 MPa
By Volume			
Compressive Strength, MPa 7 days 28 days	36 53	Flexural Strength, MPa 7 days 28 days	5 7
Adhesive Strength, MPa	2.86	Carbonation Resistance	Passed
Capillary Water Absorption, kg/m ²	0.39	Pot Life, 30 °C, minutes	19
Water Permeability, cm/sec Control (Untreated) PolySeal CWP 14 days old PolySeal CWP 28 days old	1.8 × 10 ⁻¹¹ 2.1 × 10 ⁻¹³ 22 × 10 ⁻¹⁴	Theoretical Coverage, kg/m ² per coat Horizontal Vertical	1.4 - 1.6 0.7 - 0.8

APPLICATION

- Waterproofing of basement and below grade parking structure.
- Water retaining structures and containment walls.
- Swimming pools and reservoirs.
- Tunnels, machine/lift pits and concrete walls.
- Concrete structure including elevator shafts, planter boxes and concrete roof decks.
- Concrete pipes
- Portable water structure.
- Sewage water structure



ADVANTAGES

- Become an integral part of the concert structures instead of merely being a surface coating or membrane that can damage or delaminate.
- Penetrates deep into to the capillary tracts and shrinkage cracks and can seal both positive and negative side of concrete structure.
- Un-reacted chemicals remain active and will reactive in contact with water providing additional protection against leakage.
- Protects against water borne corrosive chemicals that can cause corrosion of reinforcement.
- Does not require special protection during back filling, placement of reinforcement or other procedures necessary to protect a surface type waterproofing systems.
- Can be applied on 7 days old concrete.
- Shrinkage compensated, no spider - web cracking.

APPLICATION METHODOLOGY

- Ensure that structure is sound and free from the dirt, soil, oil release agents, laitance and any other foreign materials which may impair the bond, penetration and overall performance of PolySeal CWP.
- In case of smooth concrete surface, the surface should be water/sand blasted or acid etched to ensure that the concrete surface has an open capillary system.
- In case of any crack, cut “V” grooves with suitable cutter machine and fill with crystalline mortar in the ratio of 1:1:4 (PolySeal CWP : Cement : Sand).
- Make gola of 75×75 mm with crystalline mortar and apply the same at intersection.
- Treat active water leaks to full stop water.
PolySeal CWP can be applied:
 - **By Brush Application:** Mix PolySeal CWP with 23% potable water (5.75 litre water/25 kg bag). Fill the complete mixing water into a suitable bucket and mix the powder with a slow speed drill (300 - 600 rpm) into the water until a lump free mix with a consistency of an oil paint is achieved.
 - **By Spray Application:**
 - Mix PolySeal CWP with 23% potable water (5.75 litre water/25 kg bag). Fill the complete mixing water into a suitable bucket and mix the powder with a slow speed drill (300 - 600 rpm) into the water until a lump free mix with a consistency of an oil paint is achieved. The water addition may be reduced slightly to get a more thixotropic mix.



By Dry Shake Application:

- PolySeal CWP can be applied in powder form onto concrete before finishing the surface. PolySeal CWP is applied uniformly onto the concrete and then finished with helicopter trowel.

HEALTH & SAFETY

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin/eyes. In case of unlikely contact with eyes, rinse with plenty of clean water then cleanse with soap and lukewarm water and seek medical advice.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

PACKAGING

Available in 25 kg bag.

STORAGE

Must be stored in original packing at ambient temperature, dry place under shed, away from heat.

SHELF LIFE

12 months from the date of manufacture in the original unopened sealed condition.