

Ozone CWP 110

Crystalline Waterproofing coating

DESCRIPTION

Ozone CWP 110 is a two component polymer modified, cementitious coating. It consists of dry component and polymer component. It is used as a chemically active waterproofing treatment for concrete. Ozone CWP 110 when mixed with liquid polymer and applied as a brush coat to concrete, it penetrates deeply into the capillaries of the concrete & protects it against the permeability of water, withstand hydrostatic pressure and for use in saturated conditions.

USES

- Sewage and Water Treatment Plants
- Secondary Containment Structures
- Tunnels and Subway Systems
- Underground Vaults
- Foundations
- Dams
- Swimming Pools
- Rafts and Basements
- Inspection pits & lifts shafts
- Reservoirs

ADVANTAGES

- Becomes an integral part of the concrete, forming a complete body of strength and durability.
- Penetrates deeply and seals concrete's capillary tracts and shrinkage cracks
- Can be applied from either the positive or negative side
- Waterproofing and chemical-resistance properties remain intact even if the surface is damaged
- Completely effective against high hydrostatic pressure
- More effective overall and less costly than hydrolytic membrane or clay panel systems
- Easy to apply, labor-cost effective
- Increases concrete's compressive strength
- Cannot come apart at the seams, tear or be punctured
- Does not require protection during backfilling, placement of steel or wire mesh, and other common procedures
- Seals hairline and shrinkage cracks of up to 1/64" (0.4 mm) rather than merely masking or bridging them
- Resists chemical attack (pH 3-11 constant contact, pH 2-12 intermittent contact) and provides a range of protection from freeze/thaw cycles, aggressive subsoil waters, sea water, carbonates, chlorides, sulfates and nitrates
- Can be applied to moist or "green" concrete
- Protects embedded steel (reinforcing steel and wire mesh)
- Non-toxic. Approved for potable water applications (NSF 61)

TECHNICAL DATA

Appearance		Grey Powder, White Liquid
Density of wet mix	(Kg/L)	approx. 1.7
Workability	@ 20°C	approx. 30 minutes
Setting Time	@ 20°C	approx. 3-4 Hours
Elongation	@ 20°C	approx. 20%
Tear Resistance	@ 20°C	approx. 0.8 mpa
Crack bridging capacity	@ 20°C	approx. 0.8mm
Consumption		1 - 2.5Kg/m ²

Improves water permeability of concrete by more than 300%.

(Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.)

DIRECTIONS FOR USE

The substrate to be treated must be sound and even, open pored, roughened and its surface free from voids, large cracks or ridges. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance have to be removed by suitable means. Water leaks must be stopped e.g. with Ozone Plug. The substrate may be slightly damp, but must not be saturated with water.

Mixing:

Before use, shake the container of the polymer component well. Mix 25 kg of dry powder with 10 kg of liquid part in a clean container for at least 3 minutes to a lump-free, homogeneous consistency. Use a high speed mechanical mixer. Where site conditions require, rinse the container with clean water and add it to the mixture.

APPLICATION

Ozone CWP 110 is applied with, brush, trowel or suitable spray equipment. Depending on the slurry consistency a maximum of 1kg/m² can be applied in one working cycle. In most cases the application of more than one coat is recommended; please refer to relevant specification. If several coats are applied the previous coat must not be damaged during application of the following coat. The waiting time before applying the following coat depends on local climatic conditions such as humidity, temperature, etc. The previous coat is textured by suitable means whilst still plastic to form a key.

CURING

Provide suitable protection against extreme weather conditions (e.g. rain, sun, wind, frost) while setting. The freshly treated surfaces should be protected from rain for a minimum period of 24 h. The Ozone CWP 110 coating must be fully cured before getting in contact with water.

PLASTERING/COATING

Surfaces treated with Ozone products which are to be coated or painted should be left to cure for at least 28 days. Coatings on top of a Ozone treatment have to be alkali resistant. Decorative coatings applied on the passive water pressure side are recommended to be water vapor permeable. When applying paint on an elasticized polymer modified product, it must have equivalent elastic properties.

PACKAGING

25 kg bag, 10Ltr pail.

SHELF LIFE

Up to 12 months in unopened container and stored in a cool dry place.

HEALTH & SAFETY

Product contains cement, which may cause dermatitis. Wear rubber gloves when handling the product. In case of insufficient ventilation, put on suitable respiratory equipment. Do not apply the product when the surface temperature is below 5°C or greater than 45°C. Product is classified as non-hazardous.

WARRANTY: Ozone products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale. Ozone makes no warranties, implied or otherwise, as to the merchantability or fitness for ordinary or particular purposes of its products and excludes the same. If any Ozone product fails to conform with this warranty, Ozone will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made period from the date of the claimed breach. Ozone does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ozone's installation information or instructions in its product literature or on its packaging labels. The user of the Ozone products must test the products for suitability for the intended application and purpose before proceeding with the full application of the products.