

Ozone CWA 100

Crystalline Waterproofing Admixture

DESCRIPTION

Ozone CWA 100 consists of Portland cement and various active proprietary chemicals. These active chemicals react with the moisture in fresh concrete with the by-products of cement hydration to cause a catalytic reaction, which generates a non-soluble crystalline formation throughout the pores and capillary tracts of the concrete. Thus the concrete becomes permanently sealed against the penetration of water or liquids from any direction. The concrete is also protected from deterioration due to harsh environmental conditions, protecting against waterborne salts and eliminating concrete decay, is ideal for interior and exterior below grade concrete structures. As conditions on projects site and temperature varies, please contact technical professionals for advice on the use of Ozone CWA 100 for your specific project.

USES

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

ADVANTAGES

Resists extreme hydrostatic pressure from either positive or negative surface of the concrete slab

- Becomes an integral part of the concrete
- Highly resistant to aggressive chemicals
- Can seal hairline cracks up to 1/64" (0.4 mm)
- Allows concrete to breathe
- Non-toxic (NSF 61 certified for potable water applications)
- Less expensive than traditional methods
- Added to the concrete at time of batching and therefore is not subject to climatic restraints
- Reduces construction scheduling time
- Improves durability of concrete
- Permeability Reducing Admixture for Hydrostatic conditions (PRAH)
- Exceeds requirements of ASTM C494-S (Specific Performance Admixtures)
- Highly resistant against acids

TECHNICAL DATA

Water Permeability	< 20 mm (BS EN 12390-8 /DIN 1048.5)
Water Soluble Chloride	< 0.2 % content (EN 480-10)
Suitable pH range	3 – 11
Toxicity	Pass SS375:2001

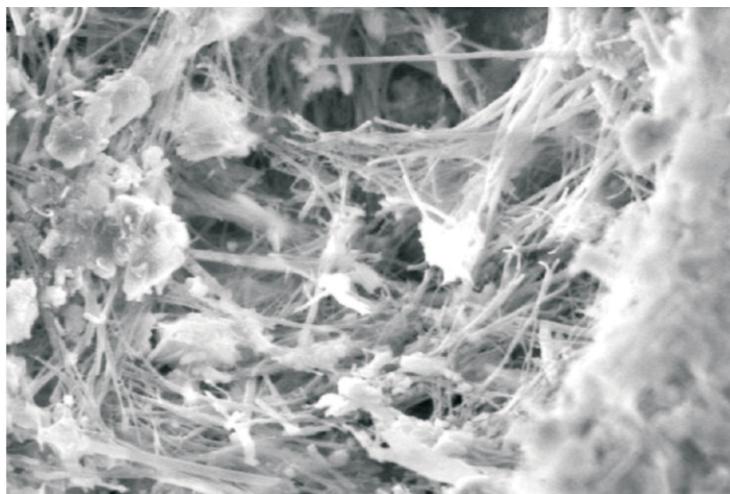
Concrete setting time is subject to the chemical and physical ratio of the mix in conjunction with site conditions and temperature. The mix design and dosage should be tailored in conjunction with the Ozone CWA 100 admixture recommendations. Trial mixes should be conducted under site condition to determine the setting time and strength of the concrete.

(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

Dosage Rate: 0.8-1.0% by weight of cement. Consult with Ozone's Technical Department for assistance in verifying the appropriate dosage rate and for further information regarding enhanced chemical resistance and optimum concrete performance for your project.

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.



Mixing:

Ozone CWA 100 must be added to the concrete at the time of batching. For ready mix plant batching, Ozone CWA 100 added directly into the mixing drum and batch in accordance with standard practices.

Precast Batch Plant:

Add Ozone CWA 100 to the rock and sand, then mix thoroughly for 2-3 minutes before adding the cement and water. The total concrete mass should be blended using standard practices.

In all cases, total quantity of water to be added in the design mix should take into consideration the amount of moisture from aggregate and sand on site.

Setting Time and Strength:

The setting time of concrete is affected by the chemical and physical composition of ingredients, temperature of the concrete and climatic conditions. Retardation of set may occur when using Ozone CWA 100. The amount of retardation will depend upon the concrete mix design and the dosage rate of Ozone CWA 100. However, under normal conditions, Ozone CWA 100 will provide a normal set concrete. Concrete containing Ozone CWA 100 may develop higher ultimate strengths than plain concrete. Trial mixes should be carried out under project conditions to determine setting time and strength of the concrete.

SPECIAL CONSIDERATIONS

When incorporating Ozone CWA 100, the temperature of the concrete mix should be above 40°F (4°C).

PACKAGING

25 kg bag / 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.