

CHRYSO®CWA 10 Plus

Crystalline waterproofing admixture

DESCRIPTION

CHRYSO®CWA 10 Plus is a crystalline waterproofing admixture in dry powder form that is added to the concrete mix at the time of batching.

The hydrophilic active ingredients of **CHRYSO®CWA 10 Plus** react with moisture to initiate a crystallization process deep within the pores and capillary tracts of the concrete structure, enhancing its impermeability and durability.

CHRYSO®CWA 10 Plus can transform an entire concrete structure into an impermeable water barrier with lasting integral waterproofing properties.

Used to waterproof both the interior and exterior of building, **CHRYSO®CWA 10 Plus** prevents concrete decay and protects against moisture transmission, chemical attack and corrosion of reinforcing steel.

BENEFITS

- **CHRYSO®CWA 10 Plus** can be used for positive and negative waterproofing of a structure.
- The product is ideal for concrete exposed to harsh conditions and enhances the durable properties of concrete as it protects the concrete from waterborne soluble salts.
- Gives concrete crack sealing characteristics, it can seal hairline crack up to 0.4 mm wide.
- **CHRYSO®CWA 10 Plus** is a non-toxic product that is highly resistant to aggressive chemicals.
- An integral waterproofing system that is a permanent solution.

PACKAGING

- 20 kg bag

FIELDS OF APPLICATION

CHRYSO®CWA 10 Plus is recommended for all concrete mixes with high durability specifications and where low water absorption and penetration are required.

- Foundations
- Reservoir and Sewage treatment plants
- Tunnels and subway systems
- Underground structures
- Dams
- Pre cast structures cast in place and shotcrete applications
- Swimming pools
- Water retaining structures
- Desalination plants
- Plastering of exterior walls
- Bridge decks, columns beams, etc
- Roof any other areas where high hydrostatic pressure is present

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INDICATIVE INFORMATION

Product Nature	Aggregated powder
Color	Grey
Lifetime	12 months
Water solubility	Partially soluble
pH	12,00 ± 2,00

METHOD OF USE

The optimum dosage of **CHRYSO®CWA 10 Plus** can only be established after trial tests, taking into account local conditions, materials and specification requirements.

CHRYSO®CWA 10 Plus is added to concrete during the batching process. Directions may vary according to the type of batch plant operation and equipment used. Below are some typical mixing guidelines:

At Batching Plant:

CHRYSO®CWA 10 Plus is to be added to the concrete during batching before the addition of mixing water subject to the type of batching plant and operation.

At Pouring Point in Transit Mixer

Calculate the quantity of **CHRYSO®CWA 10 Plus** required as recommended in TDS (0.8% to 1%) based on the total amount of cement/binder. Make a slurry of **CHRYSO®CWA 10 Plus** with water in the ratio of approximately 2:1 by weight (i.e. 2 parts **CHRYSO®CWA 10 Plus** and 1 part potable water). Add slowly **CHRYSO®CWA 10 Plus** to the water while mixing with slow speed paddle mixer to make a smooth lumps free slurry. Add this slurry into the transit mixer and mix it for 2 - 3 minutes in moderately high speed (12 - 15 rpm) making sure that **CHRYSO®CWA 10 Plus** is evenly distributed throughout the mix. The amount of water added to the slurry should be subtracted from the batching water

Precast

Add **CHRYSO®CWA 10 Plus** to the coarse and fine aggregates and then mix thoroughly for two to three minutes before adding cement and water.

The recommended dosage rate is between 0.8% and 1% by weight of the cement/cementitious binder.

PRECAUTIONS

Compatibility:

CHRYSO®CWA 10 Plus is compatible with all types of Portland cement, class C and F fly ash, GGBS, micro silica, and fibers.

In order to achieve a homogenous mix, never add the dry powder of **CHRYSO®CWA 10 Plus** into a wet mix. This may cause improper dispersion of powder within the mix.

Before adding **CHRYSO®CWA 10 Plus**, make sure that the concrete temperature of the mix is above 5 °C.

CHRYSO®CWA 10 Plus will have a shelf life of 12 months when stored in an unopened bag in a cool, dry place.

SAFETY

Prior to any use, please read carefully the Material Safety Data Sheets.