

CHRYSO®CWA 10

Crystalline waterproofing admixture



DESCRIPTION

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

Active ingredients of **CHRYSO®CWA 10** react with moisture to form crystals deep within the pores and capillary tract of the concrete structure.

CHRYSO®CWA 10 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** prevents concrete decay and protects against moisture transmission, chemical attack and corrosion of reinforcing steel.

BENEFITS

- **CHRYSO®CWA 10** 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** is a permanent, non toxic product that is highly resistant to aggressive chemicals.
- An integral waterproofing system that is a permanent solution.

PACKAGING

- 18 kg bag

FIELDS OF APPLICATION

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

- All cement types
- Dams
- Foundation concrete
- Foundation concrete below water table
- Marine construction
- Reservoirs
- Shotcrete
- Tanks
- Tunnels, shafts and galleries
- Concreting in aggressive environments
- etc

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INDICATIVE INFORMATION

| | |
|----------------------------|-------------------|
| Product Nature | Aggregated powder |
| Color | Grey |
| Lifetime | 12 months |
| Water solubility | Partially soluble |
| Equivalent Content NA_2O | < 0,35 % |
| Specific gravity | 1,300 ± 0,020 |
| pH | 12,00 ± 2,00 |

METHOD OF USE

- The optimum dosage of this product can only be established after trial tests, taking into account the rheological characteristics and the required mechanical performances of the concrete.
- The recommended dosage rate is between 0.8% and 1% of the cement weight.
- **CHRYSO®CWA 10** 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.
- Readymix plant wet – the ratio must be 18 kg **CHRYSO®CWA 10** to 8.1 litres of water or 25 kg of **CHRYSO®CWA 10** to 11.3 litres of water. This will form a slurry. Add to the wet concrete that is being batched in the truck to the required dosage of 0.8 or 1%. Batch the concrete as normal good practice requires, keeping in mind that the amount of water added to the CWA 10 slurry should be subtracted from the batching water that needs to be added. Mix for at least five minutes in order to make sure that **CHRYSO®CWA 10** is evenly distributed throughout the mix.
- Readymix plant dry – add **CHRYSO®CWA 10** directly to the drum of the dry mix truck and then thoroughly mix the admixture with half of the required aggregate. Add half of the water, making sure that the product is distributed evenly throughout the mix. Add the remaining half of the water and aggregate.
- Precast – add **CHRYSO®CWA 10** to coarse aggregate and fine aggregate and then mix thoroughly for two to three minutes before adding cement and water.

PRECAUTIONS

- Shelf life information only applies to product stored in genuine packaging.
- Store in dry ventilated conditions. Protect from heat.

Compatibility:

- **CHRYSO®CWA 10** is compatible with all types of Portland cement, class C and F fly ash, slag, micro silica, fibers and approved air entraining admixtures.
- In order to achieve a homogenous mix, never add the dry powder of **CHRYSO®CWA 10** into a wet mix. This is because the **CHRYSO®CWA 10** powder will not disperse properly within the mix.
- Before adding **CHRYSO®CWA 10**, make sure that the concrete temperature of the mix is above 5°C.

SAFETY

Wear hand gloves, safety shoes and safety goggles while using and handling the product.
Prior to any use, please read carefully the Material Safety Data Sheets.