

CC CRYST80P

Powder waterproofing Crystalline Admixture 4th Generation

DESCRIPTION

formulated from selected organic salts and very fine treated silica specially designed to reduce the permeability in all cement based mortars, screeds and concrete. CC CRYST80P blocks the natural pores in the mix and imparts the hydrophobic properties which reduce moisture permeability.

Unique properties of CC CRYST80P active organic Chemicals reacts with moisture into the concrete and forms crystal fiber on the pores, capillary and block the pores during active hydration of cement particle. The concrete admixed with CC CRYST80P become permanently sealed against water penetration from all sides, which also increases the ultimate strength of concrete.

The advanced waterproofing properties of CCCRYST80P also protect reinforcement against corrosion, harsh environment and waterborne chemicals like sulfates, acids and chlorides, increasing the durability and life span of concrete.

ADVANTAGES

- Improves durability by minimizing penetration of moisture and water based chemicals.
- No additional water into dry or semi-dry mixes.
- Reduces efflorescence and pigment leaching from cement mortars.
- Chloride free.
- Added into the concrete at time of batching.
- Resists hydrostatic pressure from all direction, allow concrete to breathe.
- Can heal static cracks up to 0.5 mm.
- Active material for the entire life of concrete.
- Permanently waterproofs concrete.
- Protection against corrosion.
- Non toxic.
- Zero VOC content.
- Saves construction time and cost by eliminating the need for external membrane as well as reduced labour number.
- Enhances performance of concrete by reducing permeability by at least 70%.
- Enhances concrete hydrophobicity and repellency properties.
- No special addition precautions.
- Increases ultimate strength of concrete.

METHOD OF USE

CC CRYST80P should be added to the mix at the same time as the cement, sand and other aggregates. Do not pre-dissolve in the mixing water.



DOSAGE

The recommended dosage of CC CRYST80P ranges from 0.8 - 2 kg per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica. Representative trials should be conducted to determine the optimum dosage of CC CRYST80P to meet the performance requirements by using the materials and conditions on actual use.

APPLICATIONS

CC CRYST80P is a waterproofing admixture for use in all cement based mortars, screeds and concrete. it is recommended to be used for:

- Reservoirs.
- Sewage.
- Water treatment plants.
- Underground vaults.
- Foundations.
- Swimming pools.
- Parking structures.
- Basements.
- Elevator pits.
- Traffic tunnels.
- Below grade pipelines.
- Bridges.
- Dams.
- Highway infrastructure.
- Precast concrete.
- Cast-in-Place concrete.
- Shotcrete.

Powder waterproofing crystalline admixture

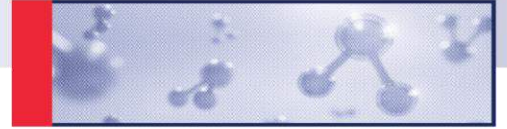
CHARACTERISTICS

Appearance White Powder

Specific Gravity $0.55 \pm 0.10 \text{ g/cm}^3$

Cl- Content Nil

Air Entrainment Typically less than 2% additional air is entrained above control mix



COMPATIBILITY

CC CRYST80P can be used with all types of Portland cement and cement replacement materials. CC CRYST80P is compatible with other CC admixtures used in the same concrete mix. If more than one type of admixture is to be used in concrete mix, they must be dispensed to the concrete separately.

STORAGE

CC CRYST80P has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

CLEANING

CC CRYST80P can be removed immediately by brush.

PACKAGING

CC CRYST80P is available in 20 , 25 kg bags.

EFFECTS OF OVER DOSAGE

CC CRYST80P over dosage will increase air entrainment which may cause a reduction in the compressive strength.

CAUTIONS HEALTH AND SAFETY

CC CRYST80P is not classified as hazardous material. CC CRYST80P should not come into contact with skin and eyes. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

FIRE

CC CRYST80P is nonflammable.