

MONOCRETE CWP

Powder waterproofing crystalline admixture

DESCRIPTION

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

Unique properties of MONOCRETE CWP active organic chemicals reacts with the moisture in fresh concrete and generates non soluble crystal and block the pores during active hydration of cement particle. The concrete admixed with Flocrete WP Crystal become permanently sealed against water penetration from all sides, which also increases the ultimate strength of concrete.

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

APPLICATIONS

MONOCRETE CWP 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.

TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	VALUE
Component	-	Single
Form	-	powder
Colour:	-	Grey
Toxicity:	BS 6920-1	Non-Toxic
Chloride content:	BSEN 480-10	nil to BSEN 934-2
PH	BS 1377-3	11-12
Drying time:	ASTM D2939	1hr
Recoat time:	-	2-4hrs
Water Permiability	BSEN 1290-8	>90% improvement control

* Improvement may vary depending on water-to-cement ratio (W/C) and cement content in the mix.

ADVANTAGES

- Chloride free.
- 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.
- 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.
- Non toxic.
- Enhances concrete hydrophobicity and repellency properties.
- 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%.

- Protection against corrosion.
- No special addition precautions.
- Increases ultimate strength of concrete.

COMPATIBILITY

MONOCRETE CWP can be used with all types of Portlandcement and cement replacement materials. MONOCRETE CWP is compatible with other STARKE 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.

METHOD OF USE

MONOCRETE CWP 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 guidance dosage of MONOCRETE CWP 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 MONOCRETE CWP to meet the performance requirements by using the materials and conditions on actual use.

POINTS TO BE CONSIDERED IN WATER-PROOF CONCRETE

- Lower water to cement ratio gives lower permeability concrete.
- Good concrete placing and compaction are very important to produce waterproof concrete.
- Fresh concrete should be protected against rapid drying and cured properly.
- Cold joints must be avoided.

CLEANING

MONOCRETE CWP can be removed immediately by brush. If the spillage is mixed with water, attention should be taken not to leave slippery film.

PACKAGING

is available in 5, 10 and 25 kg bags.

EFFECTS OF OVER DOSAGE

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

STORAGE

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

If these conditions are exceeded, STARKE Technical Department should be contacted for advice.

CAUTIONS HEALTH AND SAFETY

MONOCRETE CWP is not classified as a hazardous material. MONOCRETE CWP should not come into contact with skin and eyes.

In case of contact with eyes, immediately flush with plenty of water and seek medical attention.

For further information, refer to the Material Safety Data Sheet.

FIRE

MONOCRETE CWP is nonflammable.

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