

TIKICRYST 100



Low Dosage Crystalline Waterproofing Admixture

DESCRIPTION

TIKICRYST 100 is new generation hydrophilic crystalline waterproofing and permeability reducing concrete additive in dry powder form, effective in enhancing the concrete impermeability and durability by effectively sealing concrete pores and capillaries and reducing the shrinkage cracks.

TIKICRYST 100 admixture is free from stearates, silicates, chlorides and oils. When added to fresh concrete, the proprietary active components reacts with un-hydrated cement particles to form innumerable needlelike crystals filling the capillaries pores in concrete and reducing its size and numbers, thus making the concrete impermeable.

ADVANTAGES

- Allows concrete to withstands extreme hydrostatic pressure and enhances concrete durability
- Reduces shrinkage cracks and water demand
- Compatible with all grades of concrete
- Imparts integral water tightness to structures
- Protects reinforced concrete and hence steel from attack by waterborne corrosive chemicals such as sulphates, chlorides and corrosive salts.
- Self-seals static cracks up to 0.4mm
- Permanently active technology - crystalline action is reactivated by contact with moisture or water
- Equally effective against both positive and negative water pressure
- Reduces efflorescence
- Low dosage - economical

USES

TIKICRYST 100 is use as crystalline waterproofing and permeability reducing concrete additive to provide permanent protection to all structural concrete that will be subjected to water pressure or remains in contact with water, such as:

- Below ground structures, basements, retaining walls, foundations, elevator pits
- Swimming pools, water tanks, and water reservoirs
- Aquarium and water parks
- Structural and pre-cast concrete and pipes
- Marine structures
- Tunnels, dams, canals
- Bridge decks and parking decks
- Sewage and water treatment plants
- Roof slabs

TIKICRYST 100 is also use as crystalline waterproofing admixture for cement mortars and plasters.

PROPERTIES

Colour	Grey
Appearance	Free flowing granular powder
Bulk Density	$\approx 1300 \text{ Kg./m}^3$
Water Resistance	70 m of water head pressure

APPLICATION INSTRUCTIONS

TIKICRYST 100 is ready to use dry powder that may be added directly to the wet concrete mix during batching or added directly to the ready mix truck prior to arrival at the site.

It does not require pre-wetting or pre-mixing in to the slurry.

As **TIKICRYST 100** improves the workability of mix, it is recommended to reduce the water component by 7 to 10% to offset increased slump and workability.

Allow mixing for ≈ 5 minutes at high speed to ensure a homogeneous distribution of the product in the mix. Should addition of other admixture is required, add it after the addition of the product. Do not add water to the mix to increase slump.

DOSAGE

Per 50 Kg. bag of cement, it is recommended to add 400gm to 600gm **TIKICRYST 100**, i.e 0.80% to 1.2% by weight of cement.

COMPATIBILITY

TIKICRYST 100 is suitable for use in concrete mixes prepared with all grades of cement including slag and pozzolans.

It is compatible with most admixtures used in the production of quality concrete.

As **TIKICRYST 100** increases air-entrainment by 1% to 3%, it is not recommended to use **TIKICRYST 100** with air-entraining admixture.

It is recommended to conduct site trial with the admixture in concrete mix to arrive at compatibility with various cementitious materials.

SUPPLY

TIKICRYST 100 is supplied in 25 Kg., pack size.

STORAGE

TIKICRYST 100 must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight. The shelf life is 12 months in sealed unopened container.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage. This product becomes alkaline when mixed with water, avoid contact with skin, eyes, mouth and food. For further detail, refer to Material Safety Data Sheet.

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