

MONOCRETE IWP



Powder waterproofing admixture for concrete and mortar

DESCRIPTION

MONOCRETE IWP is based on specially processed naphthalene sulphonated condensates and additives and supplied as a light yellow powder readily miscible with water.

Concrete however well made is to some extent porous and water must be prevented from penetrating through capillary pores. The presence of water in hardened concrete can cause corrosion of reinforcement which is made severe by freezing and thawing of concrete containing absorbed moisture.

Further deterioration can occur if the water penetrating the concrete contains dissolved aggressive salts.

MONOCRETE IWP (Powder) provides protection against deterioration due to the pores, left by the slow evaporation of the excess water not taken up by hydration of cement.

MONOCRETE IWP (Powder) entrains a controlled amount of air which does not increase with the dosage.

The risk of capillary suction is reduced by the induced air which blocks the pores. The plasticising action of MONOCRETE IWP (Powder) aids in producing denser concrete/mortar with greatly reduced permeability.

APPLICATIONS

MONOCRETE IWP (Powder) is a waterproofing admixture for use in all cement based mortars, screeds and concrete.

ADVANTAGES

Improves durability by minimizing penetration of moisture and water based chemicals.

- No additional water into dry or semi-dry mixes.
- Better compaction and finishing.
- Reduces efflorescence and pigment leaching from cement mortars.

- Chloride free.
- Improves plasticity cohesion.

COMPATIBILITY

MONOCRETE IWP (Powder) can be used with all types of Portland cement and cement replacement materials. MONOCRETE IWP (Powder) is compatible with other STARKE admixtures used in the same concrete mix.

STANDARDS

MONOCRETE IWP (Powder) complies with IS 2645 AND EN934-2.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Light yellow powder
Chloride content:	Nil
BS 5075	
Air entrainment:	Up to 2% additional air

METHOD OF USE

Mixing

Hand mixing

- Measure out the required quantity of sand/aggregate followed by the cement.
- Sprinkle the correct quantity of MONOCRETE IWP (Powder) evenly over the cement.
- Mix the dry materials until an even colour is obtained.
- Add the normal measured quantity of water and mix to achieve a homogeneous mixture.

Machine mixing

- Add the measured quantity of sand/aggregate into the drum and mix continuously.
- Add the cement and sprinkle the correct quantity of **MONOCRETE IWP (Powder)** at the same time.
- Mix the dry materials for at least 2 minutes.
- Add the normal measured quantity of water and mix to achieve even a homogeneous mixture.

DOSAGE

The guidance dosage of MONOCRETE IWP (Powder) is 1kg per 50 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Monocrete IWP (Powder) 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 IWP (Powder) can be removed immediately by brush. If the spillage is mixed with water, attention should be taken not to leave slippery film.

PACKAGING

MONOCRETE IWP (Powder) is available in 1 kg bags.

STORAGE

MONOCRETE IWP (Powder) 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.

EFFECTS OF OVER DOSAGE

MONOCRETE IWP (Powder) over dosage will increase air entrainment which may cause a reduction in the compressive strength.

CAUTIONS

Health and Safety

MONOCRETE IWP (Powder) is not classified as hazardous material. MONOCRETE IWP (Powder) 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.

For further information refer to the Material Safety Data Sheet.

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FIRE

MONOCRETE IWP is nonflammable.

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- **Surface treatments**
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Important note :

Starke range products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Starke endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation, opinion or information given by it.

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