

Setcrete RMW (Powder)

Powder waterproofing admixture for concrete and mortar



Description

Setcrete RMW (Powder) 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.

Setcrete RMW (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.

Setcrete RMW (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 Setcrete RMW (Powder) aids in producing denser concrete/mortar with greatly reduced permeability.

Applications

Setcrete RMW (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.
- ▲ Reduces efflorescence and pigment leaching from cement mortars.
- ▲ Chloride free.
- ▲ Improves plasticity cohesion.
- ▲ Better compaction and finishing.

Compatibility

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

Technical Properties:

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

If more than one type of admixture is to be used in concrete mix, they must be dispensed to the concrete separately.

Standards

Setcrete RMW (Powder) complies with IS 2645.

Method of Use

Mixing

Hand mixing

- ▲ Measure out the required quantity of sand/aggregate followed by the cement.
- ▲ Sprinkle the correct quantity of Setcrete RMW (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 Setcrete RMW (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 Setcrete RMW (Powder) is 0.5 kg 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 Setcrete RMW (Powder) to meet the performance requirements by using the materials and conditions on actual use.

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Points to be considered in waterproof concrete

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

Cleaning

Setcrete RMW (Powder) can be removed immediately by brush. If the spillage is mixed with water, attention should be taken not to leave slippery film.

Packaging

Setcrete RMW (Powder) is available in 0.5 and 1 kg bags.

Effects of Over Dosage

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

Storage

Setcrete RMW (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, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

Setcrete RMW (Powder) is not classified as hazardous material. Setcrete RMW (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.

Fire

Setcrete RMW (Powder) is nonflammable.

More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.



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