

**Description**

OSPERSE RT02 is a specially formulated set-retarding additive based on a polyhydroxycarboxylic acid derivative. OSPERSE RT02 is a fine, free-flowing powder to improve dispersion in dry bagged cement based systems.

**Action**

Retarders slow down the setting and early stiffening of cement based systems producing a prolonged working time by slowing down the initial reaction between cement and water. Retarders work by reducing the rate of water penetration to the cement and slowing down growth of hydrated products.

**Benefits**

- Increased working time of cement based system by controlled set.
- Hot weather problems reduced.
- Agglomeration during storage minimised with free-flowing powder. Sieving is not required prior to blending with cement, aggregates etc.
- White specks in final applied product minimised by use of fine powder. Badly dispersed, agglomerated powder or crystallised grades generally produce surface blemishes.

**Use**

Osperse RT02 is used to control and extend the setting time of cement-based materials. It is recommended for use in systems based on Ordinary Portland Cement (OPC).

**Method of Use**

Osperse RT02 should be added to the mixer after the addition of sand and cement to provide adequate dispersion in the finished product.



## Typical Properties

### Appearance

white free-flowing powder

### Density

1.09.g/cm<sup>3</sup> (approximately)

### Addition Level

Natural variations in cements, hydraulic binders, aggregates and temperature all affect the addition level required for a given workability and retardation period. Trials should be carried out to determine optimum dosage levels.

As an initial guide, an addition level of 0.25% by weight of cement is recommended. This may have to be adjusted depending on the retardation period required, raw materials used and application.

High addition levels of Osperse RT02 will result in increased set retardation. The amount of retardation will depend on dosage rates, temperature, binder type and content. Over retarded cement systems, if properly cured, will not be adversely affected after the set occurs. Strength and durability will not be impaired.

Excessive addition levels could permanently prevent hydration.

## Compatibility

Osperse RT02 is compatible with all OPC and hydraulic binders, including ground granulated blast furnace slag, pulverised fly ash and hydrated lime.

## Health & Safety

Avoid contact with skin or eyes. Protective goggles and gloves should be worn. Refer to Material Safety Data Sheet for full details.

## Storage

Osperse RT02 is a pressure sensitive powder and should be stored in cool, dry conditions. Sealed containers, if correctly sealed, have a minimum shelf life of 1 year.

## Packaging Unit

25kg returnable plastic pail with inner polyethylene liner.

### Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

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