

Octa Crete Rp222

Water Reducing Concrete Admixture

DESCRIPTION:

Octa Crete RP222 is a chloride free water reducing, retarding and plasticizing liquid admixture based on selected lignosulphonates.

USES:

- To improve the effectiveness of the water content of a concrete mix
- To help maintain the workability of ready mixed concrete deliveries in hot weather
- To extend working times of concrete
- Particularly suitable for use in mixes with low cohesion
- May be used in bridge deck concrete to extend the time of set. This is especially important when the length of placement may result in flexural cracks created by dead load deflections during placement
- One of the most important applications of **Octa Crete RP222** retarding admixture is hot weather concreting, when delays between mixing and placing operation, may result in early stiffening of the concrete mix

ADVANTAGES:

- Controlled retardation extends working life and stiffening time for ease of construction
- Control of stiffening improves slip forming and assists in preventing the formation of cold joints in large pours
- Water reduction significantly improves compressive strengths at all ages and enhances durability

- Slight air entrainment improves cohesion in mixes with poorly graded sands or a lack of fine material, minimizing bleed and segregation
- Minimizes transportation delay problems and maintains ease of pouring and reduces the risk of pump blockage
- Allows specified strength grades to be met at reduced cement content or increased workability
- Chloride free, safe for reinforcement bars allowing use in pre stressed and reinforced concrete

STANDARDS COMPLIANCE:

- Octa Crete RP222** is produced in conformity with
- BS 5075 Part 1,
 - ASTM C494 as Type B and Type D

TECHNICAL DATA:

- Appearance: Brown solution
- Specific Gravity: 1.19
- Chloride Content: Nil
- Dispersion: Instantly disperses in water
- Hydration: Delays hydration of the cement
- Fire Hazardous: Water based-nonflammable.

DOSAGE:

Dosage of **Octa Crete RP222** is set to meet specific job requirements and determined by site trials. A confirmed dosage under a particular situation can vary between 0.4 to 1.0 litre per 100 kg of cement.

TECHNICAL SUPPORT:

Contact **Octa Build** Construction Chemicals Technical Department for advice.

The following data may be found useful by the end user, but it is highly recommended that on site trials are conducted prior to use of the product.

1) The level of retardation obtained may be varied by altering the dosage of **Octa Crete RP222** used, which will also alter the level of water reduction obtained.

2) Retardation is also affected by products and factors other than the admixture, depending on the mix details and conditions involved. Products include the type of cement, aggregate, sand and water.

Major factors which will effect retardation are the dosage, high temperatures, changing in cement content, amount of tri-calcium in the cement and the use of combination of admixtures in the same concrete mix.

3) **Octa Crete RP222** is suitable for use with all types of Portland and Sulphate Resisting cements.

4) The correct quantity of admixture should be measured and be added to concrete with the mixing water.

5) Do not overdose. Overdosing may have adverse effect on the final strength of hardened concrete.

PACKING:

Octa Crete RP222 is supplied in 200 and 210 litre drums.

STORAGE:

When **Octa Crete RP222** is stored under shade within an ambient temperature range of 5°C to 50°C, the minimum shelf life of the product is 12 months.

HEALTH & SAFETY:

- Do not swallow **Octa Crete RP222**. If accidentally swallowed, do not induce vomiting and seek medical advice immediately
- Do not allow to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn
- Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice.