Conplast RP264M2

FOSROC constructive solutions

Retarding water reducing and retarding admixture

Uses

As an admixture for concrete to improve mixing water efficiency and to retard stiffening time.

Conplast RP264M2 is particularly suitable for mixes with low cohesion.

It is designed for ready mixed concrete, especially for long distance deliveries; for site batched concrete with extended placing times; (or concreting in hot weather conditions; for pumped concrete to prevent pump blockages; in large pours and slipforming to prevent cold joints.

Advantages

- improves workability without loss of strength.
- Greatly increases compressive strength.
- Gives controlled retardation of set time.
- Allows high cement savings.
- Extends placing time.
- Allows concreting in hot weather.
- Reduces bleeding and segregation.
- Suitable for mixes with poorly graded sands.
- Gives concrete lower permeability hence improved durability.
- Chloride free.

Standards compliance

Conplast RP264M2 complies with BS 5075: Part 1 and ASTM C494 types B and D as a retarding water reducing admixture.

Description

Conplast RP264M2 is a dark brown liquid based or, modified selected lignosulphonates.

When added to concrete, Conplast RP264M2 is absorbed onto the cement, and acts as a dispersing agent by breaking down the agglomerates of cement particles. This enables the mix water to perform more efficiently. Conplast RP264M2 delays the initial hydration of the cement resulting in retardation of setting time.

Once the concrete has undergone initial set, the hardening process continues normally.

Technical support

Fosroc provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Properties

Chloride content : Nil to BS 5075

Specific gravity : 1.110 gr/ml

Air entrainment : Less than 2% additional air entrained at normal dosage rates.

Water reduction : Depending on materials and mix design, a water reduction of up to 12% can be obtained.

Compatibility : Compatible with other Fosroc Conplast admixtures but it is recommended that all admixtures should be added to concrete separately.

Compatible with all types of Portland cement, and with latent hydraulic binders such as PFA and ground slag.

Cohesion : Improved dispersion of cement particles, increases cohesion and reduces the possibility of segregation.

Durability : Increased density' results in increased durability and resistance to aggressive agents.

Setting times : Initial and final set times will be related to cement type and ambient temperature. Fig. 1 illustrates the approximate degree of retardation over control concrete.

Typical effect of temperature and dosage of

Conplast RP264M2 on retardation of set of concrete

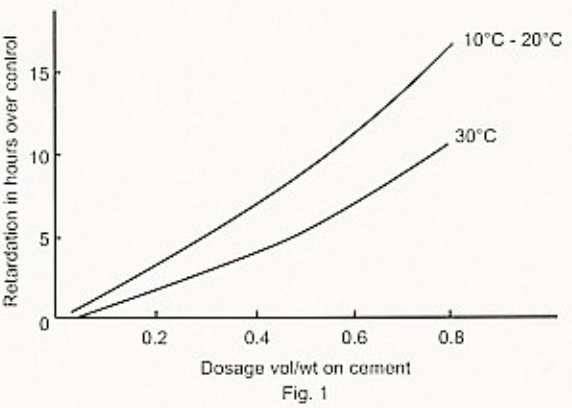

Fig. 1

Conplast RP264M2

Compressive strength: Typical results are given in Fig. 2

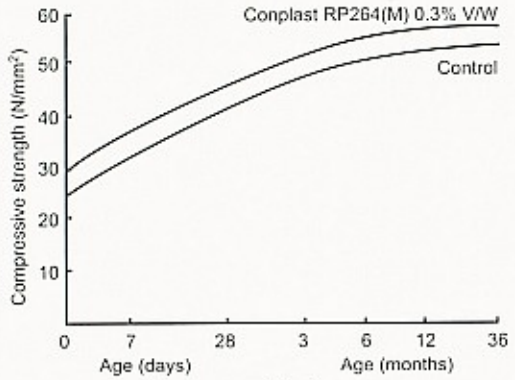

Fig. 2

Application instructions

Dosage

Conplast RP264M2 will normally be added at rate 0.2 to 0.6 litres to 100 kg cement depending on retardation required. Site trials should be carried out to determine the optimum dosage.

Dispensing

Conplast RP264M2 should be added directly to the mixer by means of a recommended dispenser at the same time as the mixing water. The company's technical departement should be consulted regarding suitable equipment and its installation.

Curing

Normal curing methods should be used, such as water spray, hessian, or the use of a curing membrane of the Concure* type.

Cleaning

Spillage of Conplast RP264M2 can be cleaned with water.

Overdosing

An overdose of double the recommended measure of Conplast RP264 M2 will result in increased retardation, but the ultimate strength of concrete will not be reduced provided good curing is maintained.

Estimating

Conplast RP264M2 is supplied in 20 litre or 210 litre drums or in tanker loads. For larger users, storage tanks and dispensing equipment can be supplied.

Storage

Conplast RP264M2 has a minimum shelf life of 12 months provided the temperature is kept within the range 2°C to 50°C.

Precautions

Health and safety

Conpiast RP264M2 is non-toxic. Any splashes to the eyes should be washed immediateiy with water and medical advice should be sought.

Fire

Conplast RP264M2 is non-flammabte.

Additional information

Technical data and guidance can be provided on a wide range admixtures and concreting aids including accelerators, plasticisers, air entraining agents, waterproofers, mould release agents, surface retarders. workability aids and repair materials.

* See separate data sheet

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