Technical Data Sheet Edition 07/2013 Number 509

Retard-Crete® LSG 40

Set Retardant For Concrete & Mortar Complies European Norm: EN 934-2 - Table 8

Description:

Retard-Crete® LSG is a ready-to-use, liquid set retarding admixture for producing more uniform and predictable quality mortar and concrete.

Retard-Crete® LSG is a water solution of active products with the capacity to delay or inhibit the complete hydration of cement and, therefore, limit the loss in workability of concrete in hot climates and when transported over long distances. Its ability to extend workability (as well as delay setting) is higher if the amount of admixture used is higher.

Uses:

Retard-Crete® LSG is particularly suitable when mixing concrete or mortar that requires highly extended working time and moderate hydration speed of the cement after short curing cycles.

It is mainly used for the following applications:

- · Retarded setting characteristics;
- Controlled retardation (depending on dosage);
- Ready-mixed concrete in hot climates;
- Pumped concrete; ShotCrete applications;
- Concrete used for bulk casts;
- Set-retarded cementitious mortar.
- Dead-load deflection can take place (before concrete sets) in extended pours for Bridge decks, cantilevers, offshored structural elements, etc.

Advantages:

The set retarding characteristics of **Retard-Crete® LSG** admixture aid in the production of mortar and concrete with the following special qualities:

- Improved retention of air content and placeability over extended periods.
- Superior handling and trowelling properties.
- Controlled retardation depending on the addition rate.
- Provides flexibility in scheduling of placing and finishing operations.
- Offsets the effects of too early hardening during extended delays between mixing and placing.
- Helps eliminate cold joints.
- Lowers peak temperature and/or rate of temperature rise in mass concrete—reduces thermal cracking.



Please consult our "Technical Services".

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position.

Application:

Dosage:

Trial dosage are highly recommended to determine the optimum dosage as different types of cement retards differently.

As a guideline, the normal dosage is the range of 0.1 - 1.2 liters/100Kg of cement.

Contact **The Unixs**® technical department for advice on dosages and usages.

It is preferable to add Retard-Crete® LSG into the mixer after the other ingredients (water, cement, aggregates). The later the admixture is added, the more effective its action. Retard-Crete® LSG is most effective if added when cement and aggregate granules are already wet, and least effective when the admixture is mixed with dry solids which partially absorb it (especially if porous).

Compatibility:

Retard-Crete® LSG can be used with all types of Portland cement including sulphate resisting and all cement replacement binders as PFA and GGBH and with other Fluid4Crete® range of admixtures by The Unixs SL Ltd.

Application Method:

Concrete should be placed according to good concrete practices and proper curing procedures should take place.

Technical Data:

Form **Liquid Aqueous Solution**

Colour Brown

1.1 kg/litre approx. Density

pH Value 7.0 ± 1.0 **Chloride Content** No TEA Content No

Packaging 5 Litres, 25 Litres, 220 Litres, Bulk deliveries

Safety: Non Hazardous Product Class EN 934-2 Set retardant, Table 8

Safety precautions:

Suitable gloves and goggles should be worn to prevent contact with skin and eyes. If swallowed do not induce vomiting and seek medical help. Spillage and splashes to the skin and eyes should be rinsed immediately with plenty of clean water and seek medical advise.

Storage and shelf life:

Stored in the original sealed containers in a dry area, this product will keep for at least 18 months. Protect from direct sunlight and from frost. Always, stir vigorously before use.

The Unixs SARLU

Votre partenaire dans le bâtiment, les produits spécialisés et le consulting Pour la Rep. de Guinée:

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