



DURASPRED GR

Plasticising and water reducing admixture with set retarding properties

Description:

DURASPRED GR is a powerful plasticiser which disperses and deflocculates cement particles whilst delaying the hydration process, thereby retarding the initial and final set. It can be used to improve workability without the addition of extra water, or to allow reductions in the free water content. Due to improved dispersion of the cement particles the process of hydration proceeds under the optimum conditions, leading to improved strength characteristics with or without reduction in free water

Uses:

- High strength, high cement content, low W/C ratio mixes.
- Hot weather concrete where control of initial and final set is important.
- White cement concrete.
- Retarded mortars

Features:

- Increases compressive, tensile and flexural strength of concrete.
- Increases density of concrete reducing permeability and thus increasing durability.
- Allows a reduction in free water in the region of 8-12%.
- Highly effective in high cement content low water cement ratio mixes where its use enables concrete to be made more workable without loss in strength, density and durability.
- Enables controlled extension of initial set.
- The retarding action allows continuous concrete pours to be made, thus reducing the number of construction joints needed.
- The strength gain of concrete containing DURASPRED GR is enhanced. After retardation of initial and final set, a more rapid hardening of the concrete occurs, and the effect on stripping time is negligible.

Application and Mixing:

Slip form concrete, high strength mixes, to control set of concrete particularly in high temperature conditions, bridge building, prestressed concrete work, and mass concrete.

DURASPRED GR should be added to the concrete mix during the mixing cycle, at the same time as the water, or the aggregates. Never add DURASPRED GR to the dry cement. No extension to normal mixing time is necessary.

Field trials should be conducted to determine the optimum addition rates of DURASPRED GR. As a guide to these trials, a dosage range of 100 to 250ml per 100kg of cementitious material for normal use and 250 to 500ml where higher retardation is required. Dosages outside this range can be used where improved workability, increased water reduction and / or further set retardation are required.

DURASPRED GR can be used with all types of Portland cement including sulphate resisting (Type V). For use with other special cements, contact DURA Technical Dept.

DURASPRED GR should not be premixed with other admixtures. If other admixtures are to be used in concrete containing DURASPRED GR, they must be dispensed separately. If in doubt, consult DURA Technical Dept.

Technical data:

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| Colour of the hardened film | : Clear/pale straw coloured liquid |
| Specific gravity | : 1.156 at 25°C. |
| Chloride content | : "chloride free" to EN 934-2 |
| Freezing point | : 0°C |
| Packing | : DURASPRED GR is available in bulk or 210 litre drums |
| Shelf life | : 12 months if kept in original packing under shed. |
| Storage | : Keep it in a dry place. |
| Health & Safety | : Non-toxic, Non-flammable, Eco-friendly. |



IMPORTANT: Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

WARRANTY: Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

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