

# ROCK ADMIX G\*100

Workability Retention, High Range Water Reducer and Superplasticizer Admixture for concrete & Mortar

## DESCRIPTION:

- ROCK ADMIX G \*100 is a chloride free brown liquid, workability retention admixture based on selected organic polymers which instantly disperses in water.
- It disperses the fine particles in the concrete mix enabling the water content of the concrete to perform more effectively.
- The increased workability, cohesion and retardation minimizes loss of workability.

## USES:

- ROCK ADMIX G \*100 is recommended for all cement types in the following areas:
- Ready to use concrete.
- Heavily reinforced concrete works.
- Incubated concrete.
- Paving and industrial floors.
- Fluid concrete for long maintenance of slump.

## ADVANTAGES:

- Gives increased working life to fresh concrete.
- Increases workability without extra water, reducing placing time and costs.
- Improves cohesion, minimizing segregation and improving surface finish.
- Aids pumping by improving cohesion and reducing workability loss.
- Allows a reduction in water/cement ratio, enhancing durability by producing low permeability concrete with reduced shrinkage cracking potential.
- Chloride free, safe for use in pre-stressed and reinforced concrete.
- Can be used with concrete containing micro silica and other cement replacements.
- Suitable for use in Middle East and Arabian area conditions.

## STANDARD COMPLIANCE:

- BS 5075 Part 3.
- ASTM C494 Type G.

## TECHNICAL PROPERTIES:

**Appearance** Brown liquid  
**Specific gravity** 1.177 @25°C  
**Chloride content** Nil

## COMPATIBILITY:

Compatibility with cement:

- Compatible with all types of Portland cements and sulphate resistance cements type (V).

Compatibility with other admixtures:

- ROCK ADMIX G \*100 can be used with other Rock admixtures in the same concrete mix.
- All admixtures should be added to the concrete separately and must not be mixed together prior to addition.
- The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

## INSTRUCTIONS FOR USE:

Mix design for workability retention:

- The mix design should be one suitable for use as a pump mix.
- To obtain the best results for workability retention, the initial workability should be above 150 mm slump.
- The retardation and improved cohesion provided by ROCK ADMIX G \*100 then act to enhance the workability retention characteristics.
- In correctly designed flowing, the improved dispersion of the cement particles and the more efficient use of mixing water will improve mix cohesion.
- The improved cohesion obtained with ROCK ADMIX G \*100 will also help to minimize bleed and segregation.
- After initial trials, minor modifications to the mix design may be made to optimize performance.

## DOSAGE:

- The optimum dosage should be determined by site trials with the particular concrete mix under ambient conditions.
- As a guide, the dosage will fall into one of two range dependents on use:
- 0.6 - 2.5 liter/100 Kg of cementitious material.

## USE OVERDOSING:

- Dosages outside the typical range quoted above may be used if necessary and suitable to meet particular mix requirements.

**EFFECT OF OVERDOSING:**

- An overdose of double the amount of ROCK ADMIX G \*100 will result in a significant increase in retardation as compared to that normally obtained.
- Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased.
- The effects of overdosing will be increased if sulphate resisting cement or cement replacement materials are used.
- Over dosage is also likely to cause increased air entrainment, which will tend to re-duce strength. The degree of this effect will depend on the particular mix design and overdose level.

**DISPENSING:**

- ROCK ADMIX G \*100 liquid should be dispensed directly into the mixing water or added simultaneously into the concrete mixer.

**CONCRETE PLACING:**

- The standard rules of good concreting practice concerning production and placing must be followed.

**CURING:**

- As with all structural concrete, the surface must be cured immediately after drying by water spray, wet hessian or one of the Rock Curing Products.

**CLEANING:**

- Spillages of ROCK ADMIX G \*100 can be removed with water.

**PACKAGING:**

- Available in 20 liters. Plastic pails, 210 liters' drums and 1000 liters bulks.

**STORAGE & SHELF-LIFE:**

- Approx. 12 months in dry shaded conditions in its original closed bags.

**HEALTH AND SAFETY:**

- ROCK ADMIX G \*100 is non-toxic, non- corrosive and any splashes of the skin should be washed off with water, if contact with eyes occurs wash with water immediately and seek medical advice.

**FIRE:**

- ROCK ADMIX G \*100 is nonflammable.



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