

ROCK ADMIX RG* 200/1

Very High Range Water-Reducing and Slump Retaining Concrete Admixture

DESCRIPTION

ROCK ADMIX RG* 200/1 is a highly effective dual action liquid super-plasticizer for the production of free-flowing concrete or as a substantial water-reducing agent for promoting high strength concrete. It imparts excellent slump retention for prolonged periods.

ROCK ADMIX RG* 200/1 is especially suitable for use in concrete mixes containing micro-silica and other pozzolanic materials like GGBS and Fly Ash.

This product is suitable for tropical and hot climatic conditions.

USES

ROCK ADMIX RG* 200/1 used as a superplasticizer in the production of free flowing concrete such as in:

- Slabs and foundations.
- Walls, columns and piers
- Slender components with densely packed reinforcement.
- Piles.

It is also used as a water-reducing agent for production of high early strength concrete such as in:

- Precast concrete.
- Pre-stressed concrete.
- Bridges and cantilever structures

CHARACTERISTICS / ADVANTAGES

ROCK ADMIX RG* 200/1 provides the following properties:
As a super plasticizer:

- Workability is greatly improved.
- Concrete is placed easily, especially suitable in slender components with densely packed reinforcement.
- Concrete requires less vibrating.
- Improved cohesion of the concrete mix reduces significantly the risk of segregation and allows greater time for placement.

As a water reducer:

- Up to 35% water reduction.
- Final strength improved up to 40% at max. possible water reduction.

APPROVALS / STANDARDS

ROCK ADMIX RG* 200/1 complies with ASTM C-494 Type F & G and EN 934-2

PRODUCT INFORMATION

Chemical Base

Sulfonated Naphthalene based polymer.

Form

Liquid.

Packaging

1000 lt. flow bins.

Bulk supply in tanker trucks is possible on request

Appearance / Color

Brownish

Shelf Life

12 months from date of production if stored properly in undamaged and unopened original sealed containers.

Storage Conditions

Store in dry conditions and at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Density

Approximately 1.215 kg/l (ASTM C-494)

Chloride Content

Nil.

APPLICATION INFORMATION

Recommended Dosage

0.6 - 2.5 % by weight of cement.

Exact dosage rates are dependent on the type of effect sought, quality of cement & aggregates, Water/Cement-ratio and ambient temperature.

Therefore, it is advisable to carry out trial mixes.

Compatibility

ROCK ADMIX *200/1 is compatible with all types of Portland Cement, including S.R.C.

When accidental overdosing occurs, the set retarding effect increases.

During this period the concrete must be kept moist in order to prevent premature drying out.

Dispensing

ROCK ADMIX RG* 200/1 is added to the gauging water at the plant or added on site into the concrete mixer. Allow enough time for the concrete to mix thoroughly.

For Ready-mix concrete, ROCK ADMIX RG* 200/1 is added to the concrete immediately

CONCRETE PLACING

The standard rules of good concreting practice, concerning production and placing, are to be followed. Refer to relevant standards.

CURING

Fresh concrete must be cured correctly, especially at high temperatures in order to prevent plastic and drying shrinkage. Use Citychem products as a curing agent or apply wet hessian.

CLEANING

Clean all equipment and tools with water immediately after use.

APPLICATION NOTES / LIMITATIONS

When accidental overdosing occurs, the set retarding effect increases and additional air is entrapped. During this period the concrete must be kept moist in order to prevent premature drying out.

When using ROCK ADMIX RG*200/1 a suitable mix design must be selected and local material sources must be trialed.

ROCK ADMIX RG*200/1 must not be added to dry cement.

Before pouring, suitability tests on the fresh concrete must be carried out.

Due to the extended workability, take special care that formwork is properly installed and secured.

If frozen, gradually thaw out and agitate until completely homogenized.

Prolonged storage at temperatures > 35°C is not advisable

TRANSPORT

Non-hazardous.

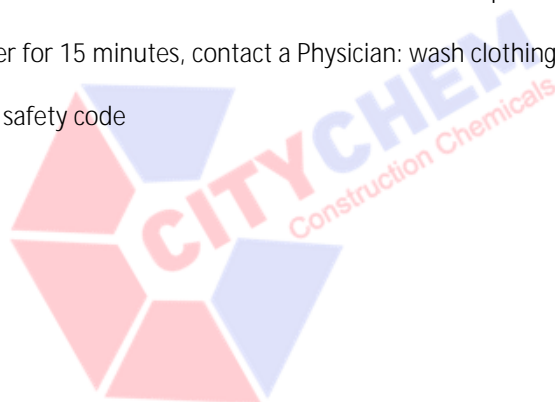
SAFETY PRECAUTIONS

Contains material, which may in certain cases cause skin irritation: Cleanliness is required. In case of skin contact, wash thoroughly with soap and water:

In case of eye contact, flush with water for 15 minutes, contact a Physician: wash clothing before re-use.

TOXICITY

Non-Toxic under relevant health and safety code



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CONSTRUCTION