

Cormix ® R1

WATER REDUCING PLASTICISING AND RETARDING CONCRETE ADMIXTURE

DESCRIPTION

Cormix R1 is a liquid retarding and water reducing agent, used to improve the workability of concrete mixes or to permit effective reductions in the free water content.

Cormix R1 is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product. It is based on a modified organic agent and complies with ASTM C494-81 Type A and D, BS EN934 Part 2

USES & ADVANTAGES

Cormix R1 is used where high quality concrete is required, for example, in hot climates in the production of ready mix concrete, site concrete and R.C.C.

Advantages include:-

- Extension of slump in high temperatures.
- Workability improvement to most types of concrete mixes.
- Increased strengths.
- · Reduced water without loss in workability.
- · Can be used for pumped concrete.
- · Increased setting times in high temperature.
- · Effective in achieving cement economies.
- · Improves surface finishes and overcomes blemishes.

PROPERTIES

Appearance: Dark brown liquid
Specific Gravity: 1.16 - 1.18
Air Entrainment: 1 - 2%
pH Value: 4-5
Chloride Content: Nil

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Cormix R1 can be used with all types of Portland Cement and pozzolanic materials such as P.F.A., G.G.B.F.S. and Silica fume. For use with special cements we recommend that you consult Cormix International.

Compatibility with other admixtures :

Cormix R1 should not be premixed with other admixtures. The performance of the material may be affected by the presence of other chemicals and we would recommend that Cormix International Ltd. Be consulted in such circumstances.

METHOD OF USE

Cormix R1 is supplied ready for use, it should be added to concrete mixes during the mixing process at the same time as the water or the aggregates. It should not be added directly to the cement. No extension of normal mixing time is necessary.

DOSAGE RATES

The performance of **Cormix R1** is best assessed after preliminary tests on site using the actual concrete under consideration to determine the optimum dosage and

on properties such as compressive strength, setting times, shrinkage etc. when these are of consequence. As a guide to these trials, an addition rate of 0.2 - 0.5 litre per 100 kg of total cementitious material, is recommended for standard RMC. For concretes such as Roller Compacted Concrete dosages as high as 1.0-1.5 litre per 100 kg of total cementitious material. This rate of addition can be varied to give different results. For advice and assistance with your trials we would recommend that you consult Cormix International.

EFFECTS OF OVER-DOSING

Over-dosing of **Cormix R1** will cause an extension of initial setting time. If this happens consult Cormix. If intentional or accidental increases above the recommended addition rate are employed, care must be taken to allow for the effect on the stripping of formwork. In such cases, however, provide the concrete is properly cured, the ultimate strength will generally by higher than for normal concrete.

PACKAGING

Cormix R1 is supplied in 200 litre steel drums. Alternatively bulk deliveries can be arranged.

STORAGE & SHELF LIFE

Cormix R1 should preferably be stored protected from frost. If the product does become frozen it should be carefully mixed after thawing out, to restore it to its normal state.

The shelf life is 12 months when stored in original unopened containers.

HEALTH & SAFETY

Cormix R1 is formulated from chemicals that present no fire or health hazards. Do not take internally. If on skin wash off with soap and water. If in eyes wash out with copious amounts of water and seek medical attention. For further information consult Cormix International Ltd.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001: 2015 verified by TUV Nord.

CONTACT DETAILS

Cormix International Limited

89 Romklao Rd., Sansab, Minburi, Bangkok 10510

Tel. (66 2) 917 3955-8, 543 8890 Fax. (66 2) 917 3959, 543 8891

http://www.cormix.com E-mail: info@cormix.com]

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NOTE: Every reasonable precaution is taken in the manufacture of all CORMIX-products to ensure that they comply with CORMIX's high standard of quality. The recommendations and properties of the product are based upon what is believed to be the most reliable information available, and are not intended as recommendations which infringe on other patents. Although all CORMIX-products are subject to rigid quality tests, no specific guarantee can be given, because results depend, not only on quality, but also on other factors beyond our control. We welcome therefore consultation in the event of doubt concerning application, or performance, and point out those oral recommendations, which vary from the instructions contained herein, are not binding without written confirmation by CORMIX. All transactions shall be subject to our terms and conditions of sale-delivery-and-service. This data sheet supersedes the previous one and a reprint may be issued without notice to supersede this edition, as and when deemed necessary. The information given in this leaflet is to the best of our knowledge true and reliable. Field service where provided does not constitute supervisory responsibility. Our guarantee is therefore limited to the quality of materials delivered.