

Cormix[®] P4

WATER REDUCING PLASTICISING AND RETARDING CONCRETE ADMIXTURE

DESCRIPTION

Cormix P4 is an economical liquid mid range concrete plasticiser and retarder or water reducing agent used to improve the workability of concrete mixes or to allow an effective reduction in free water content to be made. The effect is achieved by its absorption on to the surface of the cement particles in a concrete mix giving a powerful de-flocculating action.

Cormix P4 is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product. It is based on a high grade, modified lignosulphonic and carboxylic acid derivative and depending on addition rate conforms to Type A and D materials of ASTM designation C494-81 and with BS5075 : Part 1, GB 8076-1997, BS 5075 Part 1, BS:EN934-2:1998, ASTM C1017 as Type 1 and Type 2.

USES & ADVANTAGES

Cormix P4 is used to produce workable and dense concrete in for example, dams, tunnels, runways, canals, reservoirs, ports, and marine structures etc. It is widely used in ready mix & site concrete.

Advantages Include:-

- Extension of slump in high temperatures.
- Workability improvement to most types of concrete mixes.
- Increased early compressive & flexural strengths.
- A 10-15% water reducing effect can be obtained.
- Reduced water without loss in workability.
- Can be used for pumped concrete.
- Effective in achieving cement economies.
- Extended setting times in high temperatures.
- Improves surface finishes.

PROPERTIES

Appearance:	Dark brown liquid
Specific Gravity:	1.16±0.01
Air Entrainment:	1 - 2 %
pH Value:	approx. 4 - 9.5
Chloride Content:	Nil

Compatibility with Cements:

Cormix P4 can be used with all types of Portland cement, concrete containing fly ash, silica fume or G.G.B.F.S. For use with special cements we recommend that you consult Cormix.

Compatibility with Other Admixtures:

Cormix P4 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 be consulted in such circumstances.

METHOD OF USE / APPLICATION

Cormix P4 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

The performance of **Cormix P4** is best assessed after preliminary tests on site using the actual concrete under consideration to determine the optimum dosage and effect 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 0.3-0.7 litre per 100 kg of total cementitious material, is recommended. 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.

EFFECTS OF OVER-DOSING

Over-dosing of Cormix P4 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, provided the concrete is properly cured, the ultimate strength will generally be higher than for normal concrete.

DISPENSING

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment. Such equipment is available from Cormix.

PACKAGING

Cormix P4 is supplied in 200 litre drums. Alternatively bulk deliveries can be arranged.

Cormix® P4**WATER REDUCING PLASTICISING AND RETARDING CONCRETE ADMIXTURE****STORE & SHELF LIFE**

Cormix P4 should be protected from frost. If frozen remix on thawing. Storage under high temperatures causes no adverse effect. The shelf life is a minimum of 12 months in original packaging.

HEALTH & SAFETY

Cormix P4 is formulated from chemicals which 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's MSDS.

TECHNICAL SERVICE

The Cormix International Limited 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.

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