

## DESCRIPTION

**Cormix P10** is a high performance mid range water reducing concrete admixture used to improve workability of concrete mixes or to permit effective reductions in free water content. It is extremely versatile in application and is effective over a wide range of mix designs from low through to high cement contents. When used as a water reducing agent, both early and ultimate compressive strengths, and rate of strength development are markedly improved. By virtue of its water reduction capability, **Cormix P10** can also be used as a waterproofer to reduce the permeability of concrete.

**Cormix P10** functions by absorbing onto the surface of the cement particles in a concrete mix, resulting in a powerful deflocculating action and hence a more uniform dispersion of cement particles throughout the mass. This in turn leads to a higher degree of lubricity and a consequential increase in workability.

**Cormix P10** is formulated from a carefully selected blend of both synthetic and naturally derived raw materials and is manufactured under carefully controlled conditions to give consistent product. It complies with BS 5075, Part 1, Type A, D & G of ASTM designation C494-81, BS 5075 Part 1, BS:EN934-2:1998, and ASTM C1017 as Type 1 and Type 2.

## USES & ADVANTAGES

- Can be used to improve workability and simultaneously increase compressive strength.
- Enhances the workability of most types of concrete mix. Harsh mixes, such as those containing crushed rock aggregates, are considerably improved in the plastic and hardened states.
- Can be employed to modify mix designs in order to achieve cement economies.
- Is effective over a wide range of cement contents. Maintains effectiveness even at very low cement contents.
- Can be used to extend workability and therefore the period of time within which the concrete can be placed and compacted.

## PROPERTIES

<b>Appearance:</b>	Dark brown liquid
<b>Specific Gravity:</b>	1.16 - 1.19 at 20 °C
<b>Air Entrainment:</b>	increase in air content of content mixes is minimal and will rarely exceed 0.5%
<b>pH Value:</b>	5 - 6
<b>Chloride Content:</b>	Nil

**Storage Life in Manufacturers Drums:** 12 months

### Compatibility with Cements:

**Cormix P10** can be used with all types of portland cement including sulphate resisting cements. For use with special cements we recommend that you consult Cormix.

### Compatibility with Other Admixtures:

**Cormix P10** should not be pre-mixed with other admixtures. The performance of the material may be affected by the presence of other chemicals and we would recommend that Cormix be consulted in such circumstances.

## METHOD OF USE

**Cormix P10** is supplied ready for use, it should be added to concrete mixes during the mixing process at the same time as the water. It should not be added directly to the cement. No extension of normal mixing time is necessary.

## ADDITION RATE

**Cormix P10** is a versatile, high performance product which gives benefits in a wide variety of applications.

As with most products of this type, the level of the effect obtained with **Cormix P10** is governed, within limits, by the quantity of product used and by the specific nature of the concrete mix under consideration. It is necessary therefore, to assess performance under site conditions, bearing in mind the particular requirements of the situation, in order to determine the optimum dosage.

As a guide, it is recommended that trials are initially conducted at a dosage rate of 300-600 ml **Cormix P10** per 100 kg of total cementitious material.

For advice and assistance with your trials we would recommend that you consult Cormix.

## EFFECTS OF OVER-DOSING

Over-dosing of **Cormix P10** will generally produce a considerable increase in workability and, in certain circumstances, a slight increase in air entrainment. This, particularly in cold weather, will be accompanied by a retardation of the initial and final set of the cement. In such cases, however, provided the concrete is properly cured, the ultimate strength will generally be higher than for normal concrete. The effects of over-dosing will also be exaggerated when sulphate resisting cement is used in place of ordinary portland cement.

**Cormix® P10****MID RANGE WATER REDUCING CONCRETE ADMIXTURE****PACKAGING**

**Cormix P10** is supplied in 200 litre free, non returnable containers. Alternatively, bulk deliveries can be arranged.

**STORAGE**

**Cormix P10** 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.

**HEALTH & SAFETY**

**Cormix P10** is an aqueous solution of materials which present no serious health hazard. However, as with all organic chemicals, normal industrial hygiene procedures should be adhered to and it is recommended that gloves and eye protection be worn when handling. In case of skin or eye contact, thoroughly irrigate with water and seek medical advice for eye contact or if skin irritation persists. In the case of accidental ingestion, wash mouth out with water and seek immediate medical attention.

**Cormix P10** is non flammable, but if involved in a fire the dry residue could support combustion and give off fumes. In such a case, keep drums cool with water spray and remain upwards from wind to avoid fumes. In case of spillage, the floor area may become slippery and should be washed thoroughly with cold water to drain. For further information consult Cormix International Limited.

**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 : 2008 verified by TUV Nord.

**CONTACT DETAILS****Cormix International Limited**

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