

HIGH RANGE WATER REDUCING SUPERPLASTICISER

DESCRIPTION

Conmix SP1B is a highly effective water reducing superplasticiser and an extremely powerful deflocculating agent, it operates by dispersing cement in to its primary particles which dramatically increases the flow characteristics of the cement paste. Based on the soluble salt of a polymeric sulphonate it conforms to Type A, D and G materials of ASTM C494 and BSEN 934-2 1998.

USES & ADVANTAGES

Conmix SP1B has been specifically formulated to allow use both in precast concrete & R.M.C. applications.

Uses include to produce flowing concrete in :- congested areas, slabs and foundations, large pours, beams, columns and precast elements.

Conmix SP1B may also be used where substantial water reductions are required to provide high early and ultimate strengths e.g. in precast factories, prestressed concrete, bridges, shotcreting.

Advantages include:-

- Low cost solution for large precast projects.
- High strength concrete produced at normal workability and cement contents. The resultant concrete is of a dense impermeable nature.
- Substantial increase in workability without additional water.
- Normal setting without retardation.
- Very good early strengths.
- Significant strength increases.
- Increased production in precast yards.
- Better surface finish.
- Waterproof concrete may be achieved.
- Better resistance to wear & abrasion.
- Chloride free.
- Reduced shrinkage & creep.
- Suitable for hot climates.
- Improved water borne salt resistance.

PROPERTIES

Appearance: Brown liquid
Chemical: Napthalene Formaldehyde Sulphonate
Specific Gravity: 1.19 - 1.21 approx. at 20°C
pH Value: 5.5 - 7.0
Chloride Content: Nil

Compatibility with Cements:

Conmix SP1B can be used with all types of Portland Cement and pozzolanic materials.

Conmix SP1B is compatible with P.F.A., G.G.B.F.S. and Silica fume. For use with special cements we recommend that you consult Cormix International Ltd.

Compatibility with Other Admixtures:

Conmix SP1B should not be premixed with other admixtures. Consult Cormix when using other admixtures.

METHOD OF USE / APPLICATION

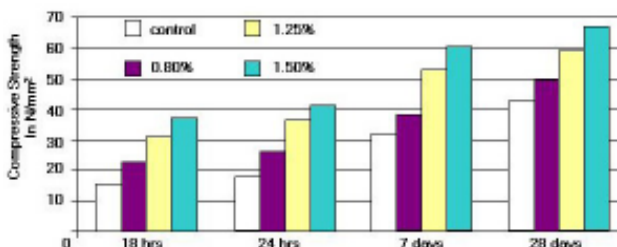
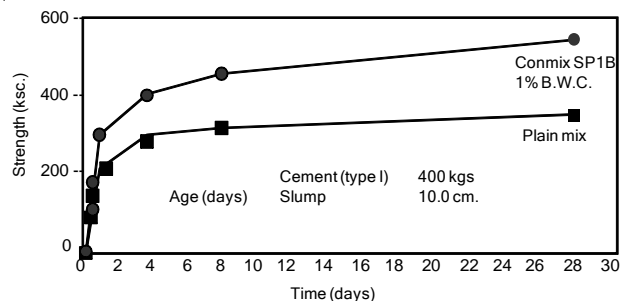
Conmix SP1B is supplied ready for use, it should be added to concrete mixes during the mixing process at the same time as the water or the aggregates. It should not be added directly to the cement.

DOSAGE

0.5 - 3.0 litre per 100 kg of total cementitious material. The exact dosage rates should be determined by trial mixes.

TYPICAL STRENGTH DEVELOPMENTS USING CONMIX SP1B

Conmix **SP1B** use to achieve High Early Strength Concrete
 Temp. 30°C



Typical Strength development with different Dosages of Conmix SP1B
 Cement Content 360 kg/m²
 W/C Ratio Varies to keep same slump (control : 0.40)

EFFECTS OF OVER-DOSING

Over-dosing of **Conmix SP1B** will generally produce a considerable increase in workability. Providing over dosed concrete is properly cured the ultimate strength will generally be higher than of a normal concrete.

STORAGE & SHELF LIFE

Conmix SP1B 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.

Conmix SP1B can also be stored under high, ambient temperatures, without any adverse effect on its performance. The shelf life is at least 12 months when stored in original unopened containers.

PACKAGING

Conmix SP1B is supplied in 200 litre steel drums. Alternatively bulk deliveries can be arranged.

Conmix[®] SP1B



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HEALTH & SAFETY

Conmix SP1B 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 International.

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 : 2008 verified by TUV Nord.

CONTACT DETAILS

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