

INTEGRAL WATER REPELLANT ADMIXTURE

DESCRIPTION

Conmix W2 is an integral water repellent admixture based on a blend of stearate & carefully selected organic derivatives, manufactured under controlled conditions to give a consistent product. The product gives maximum reduction in permeability without inhibiting side effects. This results from a positive chemical action which creates a network of insoluble water resistant material within the pores of the cement matrix. It is available in 2 forms, liquid & powder.

USES & ADVANTAGES

Conmix W2 is a permeability reducing admixture for use in all types of mortar & concrete mixes. It is particularly suitable for use in ready mixed concrete & all types of structural concrete. It is also usefully employed in precast concrete.

Advantages Include:-

- Contains no Calcium Chloride.
- Water reduction up to 5%.
- Resistance to freeze thaw cycle.
- Enhances durability of concrete.
- Reduction in permeability without significant changes in strength.
- Durability of concrete finishes is increased since the penetration of water is greatly reduced giving improved resistance to acid or salt bearing water.
- Precast units, blocks, bricks & in situ concrete containing this type of admixture have been shown to retain their original clean appearance when exposed to the elements for considerable periods.

TYPICAL PROPERTIES

Typical properties @ 25°C

	Liquid Form	Powder Form
Component :	Single	Single
Form :	Brown liquid	Light beige
Appearance :	Liquid	Fine powder
S.G. :	1.02 ± 0.02	N/A
Bulk Density :	N/A	Approx. 1.08 g/cc
Chloride Content :	Nil	Nil
Air Content :	<2% over control mix	<2% over control mix
Water Permeability : (JIS A1404)	>85% reduction over control mix	>85% reduction over control mix

COMPATIBILITY

Conmix W2 can be used with all types of Portland, Pozzolanic, Blast Furnace Slag cement, etc.

COMPATIBILITY WITH OTHER ADMIXTURES

Conmix W2 should not be pre-mixed with other admixtures. The performance of the material may be affected by the presence of other chemicals if premixed prior to addition to the concrete mix.

INSTRUCTION TO USE

Conmix W2 (Liquid) should be dispensed directly into the concrete mixer along with the mixing water.

Conmix W2 (Powder) is supplied in pre-packed ready to use. This should be added along with sand/cement/aggregate.

Conmix W2 will not entrain air when used in wet concretes, but will plasticise the mix & may cause a significant increase in workability. It is necessary to reduce the free water content of concrete mixes containing **Conmix W2** to maintain constant workability. If the free water content is not reduced, then an increase in workability will result & there may be some loss in compressive strength.

APPLICATION INSTRUCTIONS

Dosage : The optimum dosage is best determined by site trials with the actual concrete mix which enables the effect on workability & air content to be measured. The rate of addition is generally within the range of 1.0-2.0% by weight of cementitious material.

EFFECTS OF OVERDOSING

Test results have shown that the addition of **Conmix W2** to concrete mixes at up to double the recommended level of addition causes slight loss in compressive strength & minimal additional air entrainment.

PACKAGING

Conmix W2 (Liquid) : 25 ltr pails & 200 ltr drums.

Conmix W2 (Powder) : 15 kg bags.

STORAGE & SHELF LIFE

Conmix W2 has a minimum shelf life of 12 months in unopened containers under normal warehouse conditions. **Conmix W2** should preferably be stored protected from frost.

HEALTH & SAFETY

Conmix W2 is non-toxic. Any splashes should be rinsed thoroughly with water. Splashes to the eyes should be washed immediately with water & medical advice should be sought.

Fire : **Conmix W2** is non-flammable.

For the detailed information see the Material Safety Data Sheet or 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 : 2008 verified by TUV Nord.

CONTACT DETAILS

Cormix International Limited

Regional Office,
89 Romkloa 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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