Cemairin 260 CLSM

Air entraining agent for concrete

DESCRIPTION

Cemairin 260 CLSM is an air entraining admixture for concrete, formulated from selected polymers specially designed to create microscopic air bubbles that are uniformly distributed in the concrete mix.

This effect can be used to improve concrete cohesion and resistance to freeze-thaw cycles. Cemairin 260 CLSM is also suitable for use in Controlled Low Strength Material (CLSM) mortar or concrete, where enhanced flowability, reduced density, and improved workability are desired.

APPLICATIONS

- In concrete mixes for roadways, airport runways and other concrete exposed to potential frost damage.
- To increase the durability of concrete and its resistance to damage by frost and de-icing salts.
- To increase cohesion of concrete mixes to overcome bleed, segregation and sand runs where poorly graded aggregate with high fine content needs to be used.
- Improve workability and enhance flowability in controlled low strength mortar or concrete.

ADVANTAGES

- Greatly improves cohesion, reduces segregation and bleeding.
- Increased freeze/thaw cycle resistance.
- Improves workability and plasticity.
- Exceptionally effective with aggregate with high fine content.
- Suitable for mixes containing PFA, GGBS and microsilica.
- Chloride free.

COMPATIBILITY

Cemairin 260 CLSM is suitable to use with all types of Portland cement and cement replacement materials. Cemairin 260 CLSM is compatible with other DCP admixtures used in the same concrete mix.

If more than one type of admixture is to be used in concrete mix, they must be dispensed to the concrete separately.

STANDARDS

Cemairin 260 CLSM complies with ASTM C260.

TECHNICAL PROPERTIES @ 25°C:	
Colour:	Brown liquid
Freezing point:	≈ 0°C
Specific gravity:	1.00 - 1.02
Chloride content: BS 5075	Nil

METHOD OF USE

Cemairin 260 CLSM should be added to the concrete with the mixing water to achieve optimum performance.

An automatic dispenser should be used to dispense the correct quantity of Cemairin 260 CLSM to the concrete mix.

DOSAGE

The recommended dosage of Cemairin 260 CLSM to achieve air content of 5 ± 2% in the concrete mix is 0.3 - 1.0 litre/100 kg of cementitious material in the mix, including GGBFS, PFA or microsilica. We can go below or above the mentioned dose based on site concrete trials.

Representative trials should be conducted to determine the optimum dosage of Cemairin 260 CLSM to meet the performance requirements by using the materials and conditions in actual use

POINTS TO BE CONSIDERED THAT AFFECTING AIR ENTRAINMENT

Any variation in the following factors will cause change in the air content:

i. Cement fineness.
ii. Concrete temperature.
iii. Sand grading.
iv. Mixture types.
v. Compaction method.
vi. Carbon or organic impurities

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EFFECTS OF OVERDOSAGE

Overdosage of Cemairin 260 CLSM will cause the following:

- Significant increase in air content which may cause slight reduction in the compressive strength.
- Slight increase in setting time.

CLEANING

Clean Cemairin 260 CLSM with fresh cold water.

PACKAGING

Cemairin 260 CLSM is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

STORAGE

Cemairin 260 CLSM has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Cemairin 260 CLSM is not classified as a hazardous material. Cemairin 260 CLSM should not come into contact with skin and eyes.
In case of contact with eyes, immediately flush with plenty of water and seek medical attention.

For further information, refer to the Material Safety Data Sheet.

FIRE

Cemairin 260 CLSM is nonflammable.

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- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.