

COSTARMIX C AIR

Liquid and Powered Air Entraining Admixture

Description

CostarMix C AIR Entraining admixture functions by creating bubbles that are tightly packed, small and ultra-stable within the concrete mix thus making it more workable. CostarMix C AIR Entraining admixture improves the durability of concrete and thus making it damage resistant to the effect of freezing /thawing. It is formulated using lesser active material content for concrete where small dosages of air-entraining admixtures are needed. It also allows for air entrainment in stiffer concrete mixes.

Benefits

- Reduced permeability
- Reduced segregation and bleeding
- Improves workability and higher resistance to damage from cyclic freezing and thawing
- Increased compressive strength in lean mixes and water tightness.
- Substantially increased durability.
- Increases moisture retention for cement hydration and resistance to scaling from deicing salts.
- Improved plasticity and workability and Improved air-void system in hardened concrete

Recommended Uses

COSTARMIX C AIR Entrainment is typically used to produce:

- Production of high-quality lightweight concrete.
- Used to improve concrete workability in lean or harsh mixes
- Applied for use in exposed concrete with low slump mixes.
- Applicable for use in producing vibrated precast such as boxes, culverts, transitions, risers, catch basins; highway paving; concrete pipe; curb and gutters; sidewalks; driveways and all other concrete which is subjected to freeze thaw damage or the harmful effects of de-icing salts.

Standard

COSTARMIX C AIR Entrainment admixture meets the requirements of;

- ASTM C 260.
- AASHTO M 154, and
- CRD-C 13.

Dosage

The recommended dosage range for COSTARMIX C AIR ENTRAINMENT is 0.8 – 0.1 liters per 100kg of cementitious material.

Application Mode

For optimum, consistent performance, the air-entraining admixture should be dispensed on damp, fine aggregate or with the initial batch water. If the concrete mixture contains lightweight aggregate, field evaluations should be conducted to determine the best method to dispense the air entraining admixture. The Introduction of COSTARMIX C AIR ENTRAINMENT admixture to the concrete mixture using a dispenser designed for air-entraining admixtures; or add manually using a suitable measuring device that ensures accuracy within plus or minus 3% of the required amount can also be employed.

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Health & Safety

- Wear protective gloves and eye protection during work
- Avoid contact with eyes and skin
- If skin contact occurs, wash skin thoroughly
- If in eyes, hold eyes open and flood with warm water and seek medical attention immediately

Handling & Storage

Precautions for safe handling

- Prevent aerosol formation.
- Avoid inhalation of mists/vapors while applying product.
- Avoid skin contact.

Conditions for safe storage and disposal.

- Keep only in the original container in a cool, dry, ventilated place away from fire, heat, or flame.
- Protect product from direct ultra-violet or sun light.
- Dispose of contents/container to hazardous or special waste collection point.

Recommended Uses

- Reactivity: When stored and handled as prescribed there is no hazardous reactions.
- Chemical stability: Stable if stored and handled as prescribed/indicated.
- Possibility of hazardous reactions: Stable if stored and handled as prescribed/indicated.
- Incompatible materials Substances to avoid: strong acids, strong bases, strong oxidizing agents, strong reducing agents.
- Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicate

Warranty

The information and recommendations relating to the application of Costar products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costar endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costar reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request

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