

COSTARMIX C AIR

Liquid and Powered Air Entraining Admixture



PRODUCT DESCRIPTION

CostarMix C AIR Entraining admixture operates by generating tightly packed, small, and highly stable bubbles within the concrete mix, resulting in improved workability. Furthermore, this admixture enhances the concrete's durability, making it more resistant to the damaging effects of freezing and thawing.

This specially formulated admixture contains a reduced amount of active materials, making it suitable for situations where small dosages of air-entraining admixtures are required. Additionally, it enables air entrainment even in stiffer concrete mixes, providing versatility in its application.

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

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=

- 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.
- Applied for use in exposed concrete with low slump mixes.

APPLICATION MODE

- To achieve the best and consistent performance, it is recommended to dispense the air-entraining admixture on damp, fine aggregate or together with the initial batch water.
- If the concrete mixture includes lightweight aggregate, field evaluations should be carried out to identify the most suitable method for dispensing the air-entraining admixture.
- COSTARMIX C AIR ENTRAINMENT admixture can be introduced into the concrete mixture using a dispenser specifically designed for air-entraining admixtures. Alternatively, it can be added manually using a suitable measuring device that ensures accuracy within plus or minus 3% of the required amount.

DISPENSING

The measured quantity of Costamix C Air should be added along with the gauging water. For best results, add Costamix C Air in the last phase after pre-wetting the mix with 80% of the total water required.

SPILLAGES

- Spillages of product should be absorbed onto sand, earth or vermiculite and transferred to suitable containers.
- Remnants should be hosed down with large quantities of water.

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TECHNICAL PROPERTIES

Packaging	20L, 210L, 1000L
Appearance	Transparent Liquid
Shelf life	12 months minimum from production date
Density	1.2 + 0.02kg/litre@25°C
PH	7.0 ± 1
Recommended dosage	Recommended dosage: 1 - 2.0 % by weight of cement. It is advisable to carry out trial mixes to establish the exact dosage rate required
Chloride content	Nil as per BS 5075
Air entrainment	Less than 2% as per ISO 9103
Corrosion behavior	Component were selected according to EN934-1: Annex A.1

EFFECT OF OVERDOSAGE

An overdose of above the recommended level of admixture may result in high workability, slight increase in air entrainment and retardation of setting time. The ultimate strength of the

concrete will not be adversely affected and will generally be higher than for normal concrete if properly placed and cured.



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SHELF LIFE

Shelf life is 12 months provided the temperature is kept within the range of 5°C to 50°C.

STANDARD COMPLIANCE

- Conforms to the requirements of ASTM C494 type S
- Corps of Engineers Specification CRD C-13
- ASTM Specification C 260
- AASHTO Specification M 154

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.

HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product.
- *For Professional Use only.*

ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

LEGAL NOTE

The information and recommendations relating to the application of Costarchem 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 Costarchem 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. Costarchem 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.