

Technical data sheet

CHRYSO® Air A

Air entraining agent

Description

CHRYSO® Air A is a liquid admixture especially designed to entrain air into concrete and is used to achieve good frost resistance in hardened concrete.

Advantages

- Increased durability of concrete.
- Resistance of hardened concrete to potential frost damage and drying shrinkage.
- Improvement to resistance of de-icing salts.
- Better cohesion in fresh concrete (segregation and bleeding are avoided).
- High quality surface finish.
- Reduced permeability of hardened concrete.

Fresh Concrete:

- Creates air bubbles which take the place of fine aggregates without a water increase.
- Allows mixing reductions by replacement with an equivalent volume of sand.
- Improves mix cohesion and workability.
- Increases the volume yield of concrete mix proportionally to the amount of air entrained.

Hardened Concrete:

- Creates an evenly distributed matrix of air bubbles varying in diameter from 20 to 100 microns. Improves resistance of hardened concretes and mortars to freeze/thaw cycles.
- Improves the appearance of lean concretes and those lacking in fines.
- Reduces surface cracking.
- Improves the quality of lightweight concrete blocks.
- Reduces permeability.

Physical and chemical properties

- Physical state: liquid
- Colour: dark brown
- Specific Gravity: 1,03 (+ 0,01)
- pH: 11 (+1)
- Freezing point: - 2° C approximate
- Chloride: NIL

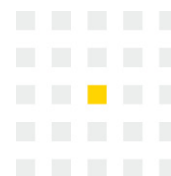
Application guidelines

Use

- All types of Portland cements
- Blast furnace slag cements with fly ash, pozzolan, fillers, fume silica, etc.
- Consult the CHRYSO technical department for other cements

Dosage

- Typical: 0,07 to 0, 15 litre per 100kg of cementitious.
- Air content should be regularly checked, as it might vary according to aggregate fineness.
- Overdosing should be avoided since it causes a decrease in mechanical strength. Monitoring the air content level helps avoid overdosing.
- In case of slight freezing, CHRYSO® Air A should be thawed out and mixed well before use.
- Site trials should be conducted to determine the best dosage for the purpose under site conditions. At site trials- effects on workability, strength and savings should be measured and then the quantity of mixing water adapted.



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Packaging

- 25ℓ jerrycan
- 200ℓ blopak
- 1000ℓ flobin
- Bulk tanker
- Delivery on request

Storage/Precautions

- The quality of **CHRYSO[®] Air A** is guaranteed for 18 months from date of manufacture provided the product is kept sealed in its original packaging.
- The storage temperature should exceed 0 ° C
- If it **CHRYSO[®] Air A** comes into contact with skin, wash with water.
- In case of contact with eyes, flush with water immediately, and seek medical advice.

Health and safety

- **CHRYSO[®] Air A** is alkaline.
- If it **CHRYSO[®] Air A** comes into contact with skin, wash with water.
- In case of contact with eyes, flush with water immediately, and seek medical advice.
- For more information, please refer to the material safety data sheet.