

DESCRIPTION

AEA® is a ready to use liquid air-entraining admixture which produces a stable air void system in the mortar phase of concrete mixes. The action of AEA® is to generate a controlled quantity of air in discrete and uniformly dispersed microscopic bubbles which improves concrete workability and reduces bleed of the concrete mix after placement.

AEA® contains no chloride as an intentional component and has no TEA. AEA® is manufactured under rigid control which provides uniform and predictable performance when used in concrete. AEA® complies with AS 1478.1-2000, Type AEA.

BENEFITS

- Improves workability and placeability
- Lowers the bleed potential of concrete particularly in mixes deficient in fines
- Resistance to freeze-thaw cycling in cold climate areas
- Assists in pumping and concrete workability

APPLICATION

- Premix, precast and low slump concrete
- Slag, lightweight or manufactured aggregates that produces harsh concrete
- Natural sands deficient in fines

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Light brown
Lifetime	12 months
Specific gravity (kg)	1,014 ± 0,005
pH	10,00 ± 1,00

PACKAGING

- Bulk
- IBC 1000L
- 205 L Drum
- Pail

SAFETY

Prior to any use, please read carefully the Safety Data Sheet (SDS).

METHOD OF USE

Dosage :

The dose rate of AEA® is dependent on the level of air entrainment required and a number of raw material and mix design variables. These variables include temperature, cement type and content, the use of supplementary cementitious materials (SCMs), sand gradation, manufactured sands, and other admixtures used in the mix, including their type and dosage rate.

- Standard mixes: 50 to 150 ml / m³ to achieve 3 to 6% air entrainment
- Specialised applications such as barrier walls, kerb and channel and shotcrete may require 300 to 1,000 ml / m³

Dosages outside the recommended ranges may be considered, subject to verification through laboratory evaluation or field trial results.

The efficiency of AEA® is significantly enhanced when used in conjunction with water reducing admixtures such as Chryso®WRDA or Chryso®Mira products. Depending on the concrete mix and required air content, a reduction of up to 60% in the AEA® dosage may be necessary to achieve the desired level of air entrainment. For project specific dosage recommendations, please contact a Chryso technical representative.

Equipment :

Please contact your local Chryso representative for further information regarding the dispensing equipment for this product.

COMPATIBILITY

- Compatible with accelerating and water reducing admixtures, water reducing retarders
- When using admixtures in combination, each admixture should be added separately to the mix

PRECAUTIONS

AEA® will freeze at approximately -1°C; however, its air-entraining properties are fully restored following thawing and thorough mechanical agitation.