

SUNKEM PLAST A.E.A.

WATER REDUCING CUM AIR ENTRAINING ADMIXTURE FOR CONCRETE OR MORTAR

SUNKEM PLAST - AEA is a high performance, chloride free, water reducing cum air entraining additives for mortar, concrete and light weight aggregate concrete. The unique properties of SUNKEM PLAST-AEA brings substantial improvements in durability by increasing crack-resistance, freezing and thawing, deicing, salt resistance and thermal insulations due to entrainment of innumerable minute air bubbles of suitable size and spacing, evenly distributed throughout the mix.

ADVANTAGE

SUNKEM PLAST - AEA Additives which when added to concrete or mortar either.

- * Reduce segregation and bleeding tendencies of mortar or concrete even in poor quality aggregate and harsh mixes.
- * Improves the properties of fresh concrete with better cohesion and workability.
- * Minimizes shrinkage and cracking in screed or renders.
- * Improve imperviousness and resistance to weathering and frost actions.
- * Improve freezing and thawing, deicing or salt resistance even to aggressive environmental influences.
- * Improve surface finishing properties.

USES

Wherever a bleeding, segregation free, durable, resistance to thermal variation, antifrost resistance and impermeable concrete or mortar required such as :

- * Roads, pavings, runways, aprons and hard standings.
- * Dam and reservoirs.
- * Thermal insulated blocks or screed.
- * Brick work and Block work.
- * Lightweight concrete.
- * From finish plaster or concrete.



INSTRUCTION FOR DATA

SUNKEM PLAST-AEA is supplied in ready-to-use form and should either be premixed with gauging water or added direct to the mixer at the same time as the water. The amount to be added depends on the characteristic of the concrete or mortar together with the degree of plasticity and air entrainment required. The suitable and optimum dosage is normally best determined on site trials under actual condition. As a guide line we recommend 100 to 150 ml per bag (50 kg) of cement which is sufficient to produce $5\pm 1\%$ of air entrainment. Generally the higher the dosage the greater the air entrainment but mixes with low workability required a higher dosage to give a specified air content.

IMPORTANT NOTE

- i) The optimum dosage should be determined by site trials with actual ingredients in a particular concrete mix. Excess air entrainment may cause a substantial reduction of strength therefore, strength of a particular admixed mix must be checked considering is water reducing characteristic.
- ii) Admixtures should not be mixed to the dry cement in any case. For better dispersions it should be diluted with part of the total mixing unit water.
- iii) Hand mix is strictly not permitted.

TECHNICAL DATA

From : Liquid

Colour : Light Brown.

Sp. Gr. : 1.03 ± 0.01

Type : Air entraining cum water reducing admixture for concrete and mortar.

Conforms to : IS-9103-1979

Air Entrainment : 4 -10% (Depends on dosages).

Dosage : 100-300 ml per bag (50 kg) of cement (depending upon the nature of work)

Shelf Life : 6 months if stored unopened in original container at normal ambient temperature.

Toxicity : Non toxic but avoid inhalation.

Handling : Presents no fire or health hazards.

Packing : Available in 25/100/200 Ltrs. drum.

