



KEM PLAST AEA 10

Air Entraining Admixture for Concrete

Ref. CA/PL-V1-0212

Description

KEM PLAST AEA 10 is a chloride free admixture based on neutralized vinsol and is supplied as a clear solution.

KEM PLAST AEA 10 acts on the cement/aggregate particles with the mixing water to produce discrete microscopic air bubbles evenly distributed thorough out the concrete.

Uses

KEM PLAST AEA 10 is used to produce air entrained concrete for increased durability. It protects concrete from damage by frost and de-icing salts and it can also be used where poor aggregates have to be utilised to improve cohesion and workability of the concrete. It will also reduce bleeding, segregation and sand runs.

Advantages

- **Protection** : Provides resistance to freezing and thawing cycles.
- **Workability** : Improves cohesion, reduces segregation and bleeding.
- **Concrete Improver** : Gives improved quality with poorly graded aggregates and in low workability concrete, improve surface texture.

Typical Properties

- **Appearance** : Clear liquid
- **Calcium Chloride Content** : Nil
- **Specific Gravity** : 1.01 at 20° C
- **Setting Time** : Insignificant change at normal dosage.
- **Compatibility** : Compatible with all Portland cements.

EFFECT OF MIX DESIGN ON AIR CONTENT

Factor and change	Air Content Change
Sand Content + 10%	Plus 1 to 2%
Fine Sands	Decrease
Cement Content +30%	Minus 1 %
Fine Cement	Decrease
PFA - Increase	Decrease

Water - Decrease i.e., in low workability concrete	Decrease
Temperature - increase of 20° C	Halved

Standards

KEM PLAST AEA 10 complies with **BS 5075: Part 2** and **ASTM - C260**.

Direction for use

Dosage : The optimum dosage for KEM PLAST AEA 10 should be determined by site trials with the particular concrete mix under prevailing ambient conditions.

Normally 0.015-0.03 litre/50 kg cement are recommended.

The dosage should be checked at least daily to ensure that the air entrainment is within specified limits & it should be added to the concrete mixer with the water using a suitable dispenser.

Compatibility : KEM PLAST AEA 10 is generally compatible with other admixtures but it is recommended that all admixtures be added to concrete separately.

Overdosing : Overdosing will lead to excessive air entrainment and reduced compressive strengths.

Packaging

KEM PLAST AEA 10 is supplied in 210 ltr. Drums.

Storage and Shelf life

KEM PLAST AEA 10 should be stored at temperatures between the range of 5° C to 30° C. It must be completely thawed and thoroughly mixed before use. It has a minimum shelf life of 12 months when stored as advised.

Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

Safety precautions

HEALTH & SAFETY

KEM PLAST AEA 10 is alkaline. Wear gloves and goggles. Any splashes to the skin should be



washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

Fire : KEM PLAST AEA 10 is non-flammable.

Curing : As with all structural concrete, normal curing methods apply.

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