İKSA Construction Chemicals &
Concrete Additives

Mebusevleri Mah. İller Sk. 23/5
Çankaya 06580 - ANKARA
Tel : (+90 312) 212 99 90 pbx
Fax : (+90 312) 212 99 89

IKSAAER

Air Entraining Admixtures for Concrete

DESCRIPTION

IKSAAER is a ready for use air entraining admixture for concrete based on synthetic tensides, producing microscobic air bubbles distributed homogeneously and throughly in concrete. Conforms to ASTM C260, TSEN 934-2 Table: 5: Air Entraining Admixture.

STANDARTS

IKSAAER conforms to ASTM C494 type A and TSEN 934-2 Table: 5: Air Entraining Admixture. IKSAAER is signed with the CE marking according to the technical requirements of the European Standard EN934-2:2001+A2:2005. Certification No: 1783-CPD-001

APPLICATION

IKSAER is supplied ready for use. In order to determine the optimum dosage, the air content of fresh concrete should be determined by tests at the jobsite.

ADVANTAGES:

IKSAAER is used for;
- Better workability and higher final strength.
- Obtaining improved waterproofing.
- Defrosting salt and winter conditions resistance.
- Frost and thaw resistance.

Besides IKSAAER is especially used in concrete roads, airfields, dams and reservoirs where watertight mass concrete is needed.

IKSAAER contributes the following properties in concrete:
- Resistance against freezing in line with the proper mix design.
- Resistance against defrosting salts.
- Avoiding segregation in fresh concrete.
- Improved workability, pumpability without changing the gauging water.
- Adjust air entraining in line with the dosage.
- Waterproofing.

METHOD OF APPLICATION

Regarding to the desired entrained air amount in concrete, consumption of IKSAER varies between 0.03 to 0.15% of the cement weight. The dosage should be adjusted in accordance with the aggregate granulometry and grain shape, water/cement ratio, cement dosage in unit volume, fineness of the cement, ambient temperature.

Important Warning: Increase in the amount of entrained air may cause decrease in the final strengths. Each additional 1% of entrained air may decrease the final strength by 5%. In addition to the air entrainers, using water reducers and strength enhancements can eliminate this undesired effect.

PHYSICAL PROPERTIES

Type	: Synthetic Surface Active Agent
Appearance	: Clear liquid
Density (ca.)	: 1,01±0, 02kg/L
pH	: 5,50 – 7,50
Chloride content	: ≤ 0.1% (EN 480-10)
Na_2O equivalent	: ≤ 10% (EN 480-12)

PACKING

IKSAAER is supplied in 30kg plastic and 200kg steel drums, 1000kg IBC tanks or in bulk.

STORAGE

IKSAAER has 1 year shelf life in sealed and undamaged containers. The storage is to be done in places protected against freezing. Very slow thawing is possible with less than 50^{O}C never through direct flame. IKSAAER has 1 year shelf life in unopened and undamaged containers. It should be protected against freezing. Thawing is possible under 50^{O}C and should be done gradually never through direct flame.

SAFETY

IKSAAER is a nontoxic material. No special precaution is required during handling. For detailed information MSDS is available.

Regarding the design, development, production and distribution of its products, IKSA is certified and applies the quality assurance system ISO 9001. In addition, IKSA Integrated Management System involves ISO 14001 and ISO 18001. Certificate Numbers: 12 300 0334 – 12 104 34115 TMS – 12 400 0023