



AIMPLAST

High Performance Superplasticiser

DESCRIPTION

AIMPLAST is a third generation Poly-Carboxylated Ether based super-plasticizer for concrete and mortar. It conforms to ASTM – C494 Type G & F.

USES

- ▶ For ready mix concrete.
- ▶ Higher workability concrete.
- ▶ Precast concrete/ GRC
- ▶ Fast track concrete.
- ▶ In situ concrete requiring fast stripping time.

CHARACTERISTICS

- ▶ Pronounced increase in the early strength development, resulting in very economical stripping times for precast and in situ concrete.
- ▶ Powerful water reduction, resulting in high density, high strength and reduced permeability for water etc.
- ▶ Excellent plasticizing effect, resulting in improved flow-ability, placing and compacting behavior.
- ▶ Higher cohesion reducing risk of segregation and bleeding.
- ▶ Improved shrinkage and creep behavior.
- ▶ Free from chlorides or other ingredients promoting corrosion of steel reinforcement. It is therefore suitable for reinforced and pre-stressed steel.
- ▶ It is compatible with all types of Portland Cement including SRC (Sulphate Resistance Cement) and Cement Fillers / substitutes like PFA, GGBFS and Micro Silica.. Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

APPLICATION INSTRUCTIONS

Mixing

AIMPLAST should be mixed prior to use. AIMPLAST should be added to the mix during the mixing cycle. It can be added with the gauged water or after water has been added. AIMPLAST should not be mixed with other admixtures or to dry cement or dry aggregates, as some performance is lost in aggregate absorption. No extension to the normal mixing time is required. .

Effects of over dosage: Dosage rates of AIMPLAST higher than noted above will result

The following:

Increased workability

Slight increase in air entrainment

Retardation of initial and final test

Provided that the concrete is fully cured, the ultimate strengths of the concrete will not be adversely affected. In many cases, ultimate compressive strength will increase slightly. Early strength will be lower than expected. Depending on the degree of over dosage, slight strength reductions may occur due to air entrainment. It is important to ascertain the reasons for the over dosage to avoid repetition.

AIMPLAST



PACKAGING AND STORAGE

AIMPLAST is available in 5L, 20 litres and 200 litres drums. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers. Should be stored in cool, shaded and dry warehouses, similar to cement. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

HEALTH & SAFETY

AIMPLAST contains no poisonous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each AIM INDUSTRIES product.

TECHNICAL SPECIFICATIONS

Appearance	Light Brown Liquid
Specific Gravity	1.06 at 25°C
Chloride content	Nil, tested to BS5075
Freezing point	0 °C.
Flash point	None
Dosage	0.2 to 2% by weight of the cement. Dosage will vary depending upon the mix-design and grade of concrete.

Standard conforms: ASTM C 494 Types F & G; BS 5075 Part 1

The information given in this datasheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site, conditions, etc.



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