



AIMRAPID

High Performance Superplasticiser

DESCRIPTION

AIMRAPID is a calcium chloride based water reducing admixture / accelerating plasticizer designed to obtain high early strength in precast / glass fibre reinforced concrete, block, mortars and lintels areas where no reinforcement is used. The fully soluble property of AIMRAPID solution results no separation even at low temperatures. AIMRAPID will improve the workability retention characteristics of concrete whilst enabling lower water cement ratio to be achieved.

USES

- ▶ Ready mix and site batch concrete
- ▶ Pre-cast concrete
- ▶ Water tanks
- ▶ G R C / G R P production
- ▶ Block / Lintel manufacturing

DOSAGE

Most of the applications it does at the recommended rate of 1680ml-3360ml / 100kg of cement. Laboratory trials followed by site trials should always be conducted to confirm the results attained meet with performance and specification requirements. The performance of AIMRAPID is best assessed after preliminary tests on site using the actual concrete

under consideration to determine the optimum dosage and the effect on properties such as ultimate compressive strength, early strength and shrinkage when these are of consequence.

Range: 1.68% - 3.36% by weight of cement.

DISPENSING

AIMRAPID should be dispensed through proprietary dispensers in the batching plant or alternatively via controlled measures at site.

EFFECTS OF OVER DOSAGE

Dosage rates of AIMRAPID higher than noted above will result the following:

- ▶ Increased workability
- ▶ Slight increase in air entrainment
- ▶ Retardation of initial and final test

Note: AIMRAPID contains calcium chloride and under any circumstances it should not be used in concrete where post-tension / pre-stressing of reinforcement is to be used.

COMPATIBILITY

AIMRAPID is compatible with all types of Portland cement including sulphate resisting and those containing cement replacement materials. Prior to use with special cement contact Pychem CSC for optimum mix design. AIMRAPID should not mix with any other admixtures.

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PACKAGING AND STORAGE

AIMRAPID is available in 5 litres, 20 litres and 210 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

AIMRAPID contains no hazardous 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	Clear Pale yellow liquid
Specific Gravity	1.34 at 20°C
Air entriament	0.7% according to dosage rates used
Chloride content	34% as calcium chloride
Freezing point	-7 °C. Mix prior to use
Flash point	None

Standard conforms: ASTM C 494 Types A&D

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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