

TECSY ACE 509

SET ACCELERATING ADMIXTURE FOR CONCRETE

DESCRIPTION

TECSY ACE 509 is a liquid admixture which is added to mortars and concrete during production in order to accelerate their setting and hardening to quickly attain increased mechanical resistance

Uses

TECSY ACE 509 is mainly for the following types of concrete.

- To accelerate the stiffening and early strength gain of Portland cement concretes and mortars
- Typical applications for concrete or mortar placed in cold weather
- Ready mix concrete
- Precast concrete
- Pre-stressed concrete
- Grouts

BENEFITS AND ADVANTAGES

- TECSY ACE 509 is Particularly effective in assisting to offset the delaying effect of low temperatures on setting and strength gain
- TECSY ACE 509 If used in conjunction with super plasticisers the combination of early set and strength gains achieved can enable double casting in a single shift
- TECSY ACE 509 is Accelerated setting reduces the risk of damage to fresh concrete from freezing
- TECSY ACE 509 is Chloride free, safe for use in reinforced concrete
- The efficiency of TECSY ACE 509 is particularly useful where fast stripping of the moulds is required

TYPICAL PROPERTIES

Appearance	:	Brownish Liquid
Specific Gravity	:	1.30 ± 0.02
Chloride Content	:	0.014 IS:9103-1999 IS 6925-1973 (Reaffirmed 2013)
Solubility	:	Water Soluble

STANDARDS

TECSY ACE 509 conforms to ASTM C 494 Type C and complies with IS: 9103 - 1999.

DOSAGE

Range : 100 ml - 3000 ml per 100 kg cement.

(0.1% to 3% [v/w]) Optimum dosage to be fixed by laboratory and site trials.

As with most commodity concrete additives, the efficiency obtained by the use of TECSY ACE 509 is dependent on dosage, water-to-cement ratio, the nature of constituent materials such as cement, fly ash and ground granulated blast furnace slag. The type of cement, its fineness and the C3A (tricalcium aluminate) content are important parameters that influence the performance of the chemical admixture. It is therefore necessary to assess the performance of concrete in its conditions of placing to arrive at optimum dosage of TECSY ACE 509 to ensure desirable plastic and hardened concrete properties.

COMPATIBILITY WITH CEMENT

TECSY ACE 509 can be used with all types of OPC, composite cement (PSC and PPC), Silica Fume, Metakaolin, Rice Husk Ash (RHA), Pulverized Fuel Ash (PFA) and Ground-Granulated Blast-Furnace Slag (GGBFS).

MATERIAL SAFETY DATA

TECSY ACE 509 is made from chemicals which present no fire or health hazard. However, in case of spillage, washing with water is adequate. Eye / skin contact should be avoided.

STORAGE AND SHELF LIFE

To be stored away from heat and frost. Before 12 months from the date of manufacture.

PACKING

60 kg, 250 kg HDPE drums. Small and Bulk packing on request.

DISCLAIMER

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