

ACCEL AX

Non-Chloride Accelerating Admixture

DESCRIPTION

Vista Accel AX is a ready-to-use, non-chloride accelerating admixture supplied as a light straw to pale yellow liquid that disperses instantly in water. It accelerates the early stages of cement hydration, producing more rapid stiffening and allowing strength gain to commence at an earlier stage. This effect is most significant within the first 24 hours after mixing.

USES

Vista Accel AX is particularly effective in offsetting the delaying effect of low temperatures on setting and strength gain. Suitable for:

- Concrete placed in cold weather conditions
- Precast concrete requiring faster mould turnover
- Early formwork removal to speed construction
- Repair mortars and fast-track works

APPROVALS / STANDARDS

Complies with IS 9103:1999 and ASTM C494 / C494M, Type C (Accelerating Admixtures). Chloride-free, conforming to IS 456 — safe for use in reinforced and prestressed concrete.

CHARACTERISTICS / ADVANTAGES

- Faster early strength development for quick handling and load application
- Reduced setting time, even in cold-weather concreting
- Non-chloride formulation — keeps steel reinforcement corrosion-free
- Improved productivity in precast and fast-track projects
- Consistent performance under varying site and weather conditions
- Enhanced durability of the finished structure
- Disperses instantly in water

PRODUCT INFORMATION

Appearance	Light straw to pale yellow liquid
Chemical base	Non-chloride accelerating admixture
Specific gravity	1.20 ± 0.02 kg/L at +27 °C
Chloride content	Nil (conforms to IS 456)
Packaging	50 kg and 230 kg drums
Shelf life	12 months from date of production
Storage conditions	Store in original unopened, sealed and undamaged packaging in dry conditions between +5 °C and +40 °C. Protect from direct sunlight and frost.

TECHNICAL INFORMATION

Air entrainment	Less than 1% above the control mix
Effect on setting	Reduces initial and final setting time; most pronounced in the first 24 hours, particularly at low temperatures
Effect on strength	Accelerated early-age strength gain without reduction in ultimate strength

APPLICATION INFORMATION

Dosage	1.0 – 3.0 litres per 100 kg of cement (determine optimum by trial mix)
Product temperature	+5 °C min. / +40 °C max.
Ambient air temperature	+5 °C min. / +40 °C max.
Compatibility	All types of OPC, PPC and PSC; compatible with other Vista admixtures when dosed separately
Overdosing	Double the recommended dose gives a slight increase in initial acceleration without materially affecting ultimate strength

APPLICATION INSTRUCTIONS

DOSING

Stir Vista Accel AX before use. Add the measured quantity to the concrete along with the mixing water. Never add directly to dry cement or aggregates.

MIXING

Where more than one admixture is used, each must be dispensed separately and not pre-mixed prior to addition. Continue mixing for the normal mixing period to ensure uniform dispersion.

TRIAL MIXES

The performance of concrete containing more than one admixture should be verified by trial mixes to confirm no undesirable effects occur. Contact the Vista Chemtech Technical Service Department for advice on special cements.

HEALTH & SAFETY

Vista Accel AX is water-based and non-flammable. Avoid contact with skin and eyes; wear suitable gloves and eye protection. On skin contact, wash with plenty of water. On eye contact, rinse immediately and seek medical attention. Keep out of reach of children. Refer to the MSDS for complete handling information.

LEGAL NOTES

The information, and in particular the recommendations relating to the application and end-use of Vista Chemtech products, are given in good faith based on Vista's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Vista's recommendations.

In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred from this information, or from any written recommendations, or from any other advice offered.

The user must test the product's suitability for the intended application. Vista Chemtech reserves the right to change product properties. All orders are subject to our current terms of sale.



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