

ACCELERATOR NT

Chloride Free, High Performance Accelerating Admixture for Concrete and Mortar



Accelerator NT is a chloride free and high performance accelerating admixture based on selected organic polymers. It is a brown solution which instantly disperses in water. Accelerator NT disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively. The increased workability and cohesion leads to high performance concrete.

Uses

- Gives increased working life to fresh concrete
- Increase workability without extra water reducing placing time and costs
- Improves cohesion, minimizing segregation and improving surface finish
- Aids pumping by improving cohesion and reducing workability loss
- Allows reduction in water cement ratio enhancing durability by producing low permeability concrete with reduced shrinkage cracking potential
- Chloride free, safe for use in pre-stressed and reinforced concrete
- Aids pumping by improving cohesion and reducing workability loss
- Can be used with concrete containing microsilica, GGBS other cement replacements

Technical Support

Thermax provides a technical advisory service for onsite assistance and advice on mix design, admixture selection and evaluation trials and dispensing equipment.

Standards compliance

Accelerator NT complies with BS 5075 Part 3, IS 910399 and ASTM C494 as Type G.

Properties

Specific Gravity at 27°C	1.23-1.25
Appearance	Brown Liquid
pH	>8
Air Entrainment	Approx. 1% additional air is entrained
Chloride Content	Nil

Dosage

The optimum dosage of Accelerator NT to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is 0.5 to 2.0 litres/100 kg of cementitious material, including PFA, GGBFS and microsilica.

Use at other Dosages

Dosages outside the typical range quoted above may be used if necessary and suitable to meet particular mix requirements. Contact Thermax for advice in these cases.

Effects of Overdosing

An overdose of double the intended amount of Accelerator NT will result in very high workability and some retardation of a settling time will occur. However the ultimate compressive strength will not be affected.

Instructions for Use

Mix Design and Workability Retention

The mix design should be one suitable for use as pump mix. To obtain the best results for workability retention, the initial workability should be above 150 mm slump. The retardation and improved cohesion provided by Accelerator NT then act to enhance workability and retention characteristics. Advice on mix design for flowing concrete is available from Thermax.

In correctly designed flowing concrete, the improved dispersion of cement particles and more efficient use of mixing water will improve mix cohesion. The improved cohesion obtained with Accelerator NT will also help to minimize bleed and segregation. After initial trials, minor modifications to the mix design may be made to optimize performance.

Compatibility

Accelerator NT is compatible with other Thermax admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by the trial mixes.

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Accelerator NT is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and microsilica.

Dispensing

The correct quantity of Accelerator NT should be measured by means of a recommended dispenser. Normally, the admixture should then be added to the concrete with the mixing water to obtain the best results. Thermax shall be contacted for advice regarding suitable equipment and its installation.

Health and Safety Instructions

Accelerator NT does not fall into the hazardous chemicals list. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes it shall be rinsed immediately with plenty of water and medical advice sought immediately. If swallowed, medical attention shall be sought immediately. Vomiting should not be used. For further information Material Safety Data Sheet available for the product.

Fire

Accelerator NT is water based and non-flammable.

Cleaning and Disposal

Spillages of Accelerator NT should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities with water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

Storage

Accelerator NT has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. Should the temperature of the product fall outside this range then Thermax shall be consulted.

Freezing Point: Approximately -4°C

Packing

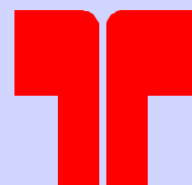
Accelerator NT is available in 5ltr, 20ltr and 250 kg barrel.

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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