

ARSET NN 40

ACCELERATOR CHEMICAL ADMIXTURE

Product Definition

ARSET NN 40 is a sodium nitrate-based concrete and mortar admixture that provides early setting by accelerating hydration. Increases early strength of concrete without negatively affecting final strength.

Technical Properties

Chemical base	Sodium nitrate based
Color, Appearance	Colorless or pale yellow
pH	6,00 – 9,00
Density	1,31 ± 0,03 g/cm ³
Chlorine Content (%)	<0,1 (EN 480-10)
Alkaline Content (%)	<5 (EN 480-12)
Compliance with Standards	TS EN 934-2

Advantages

- It can be used in combination with normal and super plasticizers however using in combination with admixtures that have retarding effect is not recommended.
- Depending on the cement type and concrete temperature, it significantly increases early strength of concrete in the first 24 hours.
- It accelerates the hydration reaction of cement in cold weather and provides concrete to set early.
- Reduces mold release time.
- Chlorine free.

Areas of Uses

- For concrete production where very high early strength is required.
- Concrete production in cold weather
- Where frost effect is expected
- When sudden temperature drop is expected
- Multi-reinforced concrete

Consumption Dosage

It is used at a ratio of 1.0 - 2.5% of the total mass. Optimum utilization rate should be determined according to laboratory trials.

Method of Application

ARSET NN 40 may be added with the mixing water or simultaneously during the mixing water is introduced to the concrete. It can also be added to the fresh ready-mix concrete at the concrete plant or construction site.

Compatibility with other admixtures

ARSET NN 40 can be combined with the following admixtures. Laboratory tests should be carried out before use.

- Superplasticizer admixtures
- Hyper plasticizer admixtures
- Air-entraining admixtures

Packing

- 30 kg plastic drum
- 250 kg drum
- 1000 kg container
- Bulk

Storage and Shelf Life

It should be stored at temperatures between +5°C and +35°C. Under proper storing conditions, the product's shelf life is 12 months from production date if kept in original packaging unopened and undamaged. Packaged products must be shaken before use.

Warning

Concrete mix design and admixture dosage should be determined by laboratory tests according to the concrete class and properties.

Safety Precautions

Use protective clothes, gloves, glasses and mask compatible with Health and Safety regulations during the application. It should not contact skin and eyes. In case it contacts to skin and eyes, rinse it with water and if swallowed ask for medical help. Food and beverage should not be allowed in the application area. It should be stored at the reach out of the children. The Safety Data Sheet (SDS) should be read for detailed information.