

ARSET NS 40

NAPHTHALENE SULFONAT BASED SUPERPLASTICIZER

Product Definition

ARSET NS 40 is a super plasticizer concrete additive that increases the early and final strength of the concrete by reducing the mixing water at a high rate and gives the concrete high fluidity with the same amount of water.

Technical Properties

Chemical Base	Sodium / Calcium Naftaline Sulfonate
Color, Appearance	Brown liquid
pH value	6,0 – 9,0
Density	1,21 ± 0,03 g/cm ³
Solid Content (%)	40,0 ± 1,0
Chlorine Content (%)	<0,1 (TS EN 480-10)
Alkaline Content (%)	<5 (TS EN 480-12)
Compliance with Standards	TS-EN 934-2

Advantages

- It increases the early and final strength of concrete.
- Thanks to its low water / cement ratio, it improves the water impermeability of concrete.
- It provides high unit weight and strength.
- It provides more smooth and good looking concrete surfaces.
- It eliminates the risk of segregation.
- It increases the durability and resistance of concrete against freezing / thawing cycle.
- It can be used with all cement types.

Area of Use

- Precast and precast concrete production
- Self-compacting concrete production
- In cement and gypsum-based products
- In flooring and field concrete
- In concrete production where impermeability is required
- Ready-mixed concrete production
- Bridge, viaduct, tunnel, airport and dam concrete
- In ports, water channels, treatment facilities and underwater concrete
- Underwater concrete production

Packing

- 30 kg plastic drum
- 250 kg drum
- 1200 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 design and admixture dosage should be determined by prior laboratory trials according to the desired concrete class and properties. When pouring concrete in cold weather, the following issues should be considered:

- Cements with high clinker ratio should be preferred instead of cement with additives.
- Formwork and reinforcement should be protected against water, snow and icing. If necessary, ice and water should be removed by heating before concrete casting.
- Molds should be isolated.
- Fresh concrete temperature should be at least 5-15 °C.
- Concrete should be covered to prevent heat and moisture loss and should be well protected until it reaches 4-5 N / mm² pressure resistance.

Safety Measures

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 Material Safety Data Sheet (MSDS) should be read for detailed information.

Responsibility: The information given in this technical data sheet is based on the applications carried out in our field of production and latest technological developments. YAPICHEM KİMYA SAN. A.Ş. is only responsible for the quality of product. YAPICHEM KİMYA SAN. A.Ş. cannot be responsible for the results due to the wrong use of the product and/or apart from the written recommendations regarding the area of use and application method. This technical data sheet makes the prior issues void.