

Teknoflow 100

Super Plasticizer Concrete Admixture



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Product Description Naphthalene sulphonate based, super plasticizer, liquid additive material that reduces the mixing water and increases the fluidity of gypsum and cement based materials. It conforms to the specifications given in TS EN 934-2 Tables 3.1 and 3.2.

Areas of Usage

- It's used in houses, shopping malls, hospitals,
- In engineering structures such as subways, highways, tunnels, dams,
- For places where early mold is required,
- In order not to leave a gap in frequently reinforced concrete,
- To reduce water permeability in foundation concrete,
- To ensure easy spreading on floor screeds.

Features and Benefits

- It increases the workability of the mixture and prevents formation of gaps.
- It reduces the amount of water in the mixture thus increasing its strength and durability.
- It is used in products which gives high strength at low temperatures.
- It provides slippery into screed, plaster and concrete to increase fluidity.
- It provides concrete casting in cold climatic conditions.

Application Instructions

Surface Preparation: When the ambient temperature is +5°C - +35°C, in areas where screed or concrete to be cast, it should be preferred.

TEKNOFLOW 100 with 0.5 - 2% of binder weight is mixed in the concrete mixture water. After a homogenous mixture is obtained, it's put in the concrete mold.

Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn.
- It is recommended to use CEM I cement to obtain early high strength.
- In the case of concrete casting in low temperatures below +5°C, the measures recommended in the standard are required. Protective measures against frost must be taken.
- Mixed water of plaster, screed or concrete should be reduced by about 10%.
- Casting pretesting concrete is recommended.
- In case of using additives on the given consumption, the hardening of the concrete will last longer.
- At temperatures below +5°C; Noon hours are the best time. Additional precautions are necessary to be taken in advance to protect the surface from frost, rain, dew and rime.
- At temperatures above +35°C; cool morning and evening hours are the best time. Precautions should be taken such as wetting the mold with water, moisturizing the surface and using rested cement in order to reduce the hydration temperature of the concrete, screed or plaster.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. Hands should be cleaned thoroughly with water and detergent before concrete or mortar is fully cured and hardened.

Technical Data

General Information	
Color	Brown Liquid
Density	1,15 ± 0,03 kg/lt
Liquid Consumption	0,5% - 2% of binder weight
Packaging	30 kg. bin or 210 kg. barrel
Shelf Life	12 months in unopened original packaging
Chlorine content	< 0,1%
Alkali Content	< 10%
Concrete Setting Time	Max. 24 hours
Bonding to Concrete	> 2 N/mm ² (7 Days)

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20°C temperature and 50% relative air humidity rate.

