

Super Viscose 20HE

Concrete Admixture

Description SuperViscose 20HE is 3rd-generation high-performance superplasticiser for concrete and mortar with hardening acceleration effect. Super Viscose 20HE pushes the development of the concrete's early strength without negative influence on final strength. The product complies with the requirements for concrete admixture Type HBV-BE to Swiss standards SIA 16 (1989) and provisional European standards prEN 934-2.

Uses Super Viscose 20HE is suitable for the manufacture of concrete in precast factories. Super Viscose 20HE excels by its extremely high water-reducing capacity, its extreme flowability while retaining optimal cohesion. With specified binder content and aggregate, the concrete's characteristics are determined by water content and SuperViscose 20HE dosage.

Super Viscose 20HE is used for the following types of concrete:

- High-performance concrete in precast industry
- Concrete with extreme water reduction (up to 30%)
- Self-Compacting-Concrete (SCC) in precast industry

High water reduction, very high flowability and short setting time, together with high early strength have an extremely favorable effect on the described uses.

Advantages Super Viscose 20HE combines different modes of action. By adsorption on hydration is in progress, SuperViscose 20HE effects the following concrete properties:

- Extremely high water reduction (producing high impermeability and strengths)
- High flowability (considerably reduced placing and compacting work)
- Faster evolution of early strength development
- Workability is set to 20 - 40 minutes and depends on the concrete concept (temperature conditions, cement type etc.)
- Highly improved waterproof ness
- Improved creep and shrinkages characteristics

Super Viscose 20HE contains neither chlorides nor other corrosion inducing substances and can therefore be used without any restrictions for reinforced and prestressed concrete structures.

Technical Data **Basis:** Modified carboxylic acids in water

Appearance: Yellowish liquid

Density: 1.06±0.02 kg/l

PH-Value: 5±1.0

Storage/Shelf life:

In unopened, undamaged original container, protected from direct sunlight and frost, stored at temperatures between +5°C and +30°C, shelf life is at least 15 months from date of manufacture.

Packaging :

Non returnable 180 kg drums

Exchangeable 1000 kg plastic containers (property of Namikaran)

Concrete manufacturing Dosage

Recommended dosage for soft-plastic consistency concrete: 0,4 - 1,4 % of weight of binder.

Addition:

Super Viscose 20HE is added to the gauging water or poured into the concrete mixer simultaneously with the water. In order to get the optimal effect of the high water reduction, we recommend a minimum wet mixing time of 60 seconds. Note



that fine-tuning of water content may at the earliest be started after 2/3 of the wet-mixing time have elapsed in order to avoid excess water in the concrete.

Concrete placing:

By using Super Viscose 20HE, concrete of highest quality is produced. The standard rules of good concreting practice must also be observed for the manufacture and placing of Super Viscose 20HE concrete. The fresh concrete must just as much receive an optimal curing treatment.

Frozen Product:

Frozen Super Viscose 20HE may be used after it has been slowly thawed at room temperature and thoroughly stirred.

Safety Instructions **Precautions:** In case of contact with skin, immediately wash with water and soap. In case of contact with eyes or mucous membranes, immediately flush with clean warm water and seek medical advice without delay.

Ecology: Do not dispose of into waters, drains or soil.

Toxicity: Non-toxic under the relevant Swiss health and Safety Codes.

Transportations: Non-hazardous.

Waste disposal: Must be disposed of as special waste according to local regulations.

Namikaran



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