

1. Product Description

StenMix® SUPA 280 is a polycarboxylic ether (PC) based high-range water-reducing, high-performance superplasticizing concrete admixture. **StenMix® SUPA 280** conforms to requirements of EN 934-2 Table 11.1 and Table 11.2 (Set retarding / High Range Water Reducer/Plasticizer Standard) and ASTM C 494/C 494M Type A Water Reducing and Type F, High Range Water-Reducing Admixtures.

2. Uses

StenMix® SUPA 280 is used in the production of flowable concrete to improve surface quality and density. It is suitable for use in densely reinforced slabs, foundations, ceilings, walls, beams and columns where extended and controlled setting times are required at high ambient temperatures. **StenMix® SUPA 280** when added to ready-mix concrete provides excellent workability.

It eliminates the risk of segregation during concrete transportation and placement. It reduces the amount of vibration required. It extends the setting time of the concrete without affecting final strength.

It increases the impermeability of concrete by reducing the amount of mixing water and consequently reducing the amount of voids in hardened concrete. **StenMix® SUPA 280** does not contain chlorides or any other components that may cause corrosion of reinforcement. When used at the appropriate dosage, **StenMix® SUPA 280** reduces the water requirement of concrete by 15-30%.

3. Application

StenMix® SUPA 280 is recommended at 0.5% to 2.0% by cement weight. **StenMix® SUPA 280** should not be added directly to dry cement, but should be added to the mixture along with the mixing water during concrete preparation. **StenMix® SUPA 280** should preferably be added to the mixing water at the concrete plant.

The dosage to be used should be determined by laboratory tests related to the required workability and strength.

4. Safety

Applicators and supervisors must read the Material Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be handled in compliance with relevant regulations and laws. The application must be carried out by skilled workers under supervision of experts and the applicators must use all kinds of protective equipment required for the worksite and the task such as goggles, mask and gloves.

5. Storage

The material must be kept in dry indoor storage. Protect the product from freezing. Products must be stored at +5 °C to +35 °C in closed conditions protected from direct sunlight.

Shelf life is 1 year without opening the package. Low temperatures may cause crystallization of the product; in this case, the product can be used after heating and homogenizing at +20 °C. The product must be stirred thoroughly

High Performance Superplasticizer

Highlights

- Polycarboxylic ether based high performance superplasticizing concrete admixture
- High-range water reduction
- Improves surface finish and density
- Extends the setting time of the concrete without affecting final strength
- Enables pouring of high quality concrete at high ambient temperatures
- Improves workability
- Eliminates the risk of segregation
- Reduces the amount of vibration required
- Increases the impermeability of concrete



before use after prolonged storage.

6. Disclaimer

This document is provided for general information and reflects **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information at any time without notice.

Stenkim® warrants that its products conform to the stated specifications on delivery. The buyer is responsible for determining the product's suitability for the intended application and for all conditions of transport, storage, handling, and use. **Stenkim®** accepts no liability for results obtained under conditions outside its control. **Stenkim®**'s liability under this warranty is limited to replacement of non-conforming product and excludes any consequential or indirect damages.

7. Technical Data

Property	Method	Result
Appearance - Color		Liquid - Brown
Chemical Composition		Polycarboxylic Ether Based Organic Polymer
Density	EN ISO 2811-2	1.05 ± 0.01 g/cm ³
pH	ISO 4316	4.7 ± 1
Solid Content	EN ISO 3251	18% ± 1%
Chloride	EN 480-10	< 0.1%
Freezing Point	ISO 3016	- 5 °C
Viscosity	EN ISO 3219	35 ± 10 cP
Shelf Life		1 year
Packaging		200 kg drums or 1,100 kg IBCs

Stenkim® reserves the right to make changes to the values in this table at any time.

