

1. Product Description

StenMix® SUPA 102 is a lignosulfonate-based water-reducing, plasticizing and set-retarding concrete admixture. **StenMix® SUPA 102** conforms to the requirements of EN 934-2 Table 10 (Set-Retarding/Water-Reducing/Plasticizing Admixture) and ASTM C 494 Type D (Water-Reducing and Retarding Admixture Standard).

2. Uses

StenMix® SUPA 102 creates a void-free concrete mass with a smooth finish in densely reinforced foundations, walls and columns that require flowable concrete. **StenMix® SUPA 102** is used as a set retarder for pouring large volumes of concrete, transporting concrete over long distances or placing concrete during hot weather. **StenMix® SUPA 102**, 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. When used at the appropriate dosage, **StenMix® SUPA 102** reduces the water requirement of concrete by 5-10%.

3. Application

The recommended dosage is 0.5% to 2.0% based on weight of cement. **StenMix® SUPA 102** must not be added directly to dry cement, but must be added to the mixture along with the mixing water during concrete preparation. **StenMix® SUPA 102** must 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 Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be disposed of in compliance with relevant regulations and laws. The application must be carried out by skilled workers under the supervision of experts and the applicators must use all personal 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 enclosed storage protected from direct sunlight.

Shelf life is 1 year in unopened packaging. Low temperatures may cause crystallization of the product; in this case, the product can be used after being warmed to +20 °C and homogenized. After prolonged storage, the product must be stirred thoroughly before use.

6. Disclaimer

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

Water-Reducing, Plasticizing and Set-Retarding Concrete Admixture

Highlights

- Has a water-reducing effect
- Used to create a void-free concrete mass with a smooth surface finish
- Extends the setting time of the concrete without affecting final strength
- Eliminates the risk of segregation
- Reduces the amount of vibration required
- Increases the impermeability of concrete



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 purpose and for all conditions of transport, storage, application, 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		Lignosulfonate-Based Organic Polymer
Density @20 °C	EN ISO 2811-2	1.08 ± 0.02 g/cm ³
pH	ISO 4316	5 ± 1
Solids Content (by weight)	EN ISO 3251	26% ± 0.5%
Chloride Content	EN 480-10	≤ 0.1%
Freezing Point	ISO 3016	-5 °C
Viscosity	EN ISO 3219	44 ± 12 cP
Shelf Life		1 year
Packaging		220 kg drums or 1,200 kg IBCs

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

