

1. Product Description

StenMix® SUPA 215 is a modified polyvinyl acetate-co-maleamide polymer based, high-range water-reducing and set-retarding, high-performance superplasticizing concrete admixture. **StenMix® SUPA 215** conforms to the requirements of EN 934-2 Table 11.1 and Table 11.2 (Set Retarding / High Range Water Reducing/Superplasticizing Concrete Admixture Standard) and ASTM C 494/C 494M Type G (Water Reducing, High Range - Retarding) standards. With its high clay tolerance, **StenMix® SUPA 215** is optimized especially for placing very low slump concrete without loss of workability or segregation during placement.

2. Uses

StenMix® SUPA 215 is used for producing and placing very low slump concrete without loss of workability. Thanks to its high clay tolerance, it maintains its performance in concrete made with aggregates of high or variable clay content. These two properties make it possible to place quality concrete without loss of workability or segregation, especially in very low-slump applications.

StenMix® SUPA 215 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. When used at the appropriate dosage, **StenMix® SUPA 215** reduces the water requirement of concrete by 15-30%.

3. Application

StenMix® SUPA 215 is recommended at 0.7% to 1.5% by cement weight. **StenMix® SUPA 215** 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 215** 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. Shelf life is 1 year without opening the package.

Set Retarding, High Performance Superplasticizer

Highlights

- High-performance superplasticizing concrete admixture based on a modified polyvinyl acetate-co-maleamide polymer
- High-range water reduction
- Has a high clay tolerance
- Has a set-retarding effect without affecting final strength
- Enables the placement of very-low-slump concrete without loss of workability
- Used to create void-free and smooth concrete mass
- Eliminates the risk of segregation
- Reduces the amount of vibration required
- Increases the impermeability of concrete



Products must be stored at +5 °C to +35 °C in closed conditions protected from direct sunlight. 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 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		Modified polyvinyl acetate-co-maleamide polymer
Density	EN ISO 2811-2	1.15 ± 0.01 g/cm ³
pH	ISO 4316	6 ± 1
Solid Content	EN ISO 3251	31.5% ± 1%
Chloride	EN 480-10	None
Freezing Point	ISO 3016	-5 °C
Viscosity (@20 °C)	EN ISO 3219	20 ± 10 cP
Shelf Life		1 year
Packaging		1,100 kg IBCs

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

