

## 1. Product Description

**StenMix® SUPA 215** is a modified polyvinyl acetate-co-maleamide polymer based, high-range water-reducing and set-retarding, superplasticizing concrete admixture for high-performance concrete. **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) 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. Its high clay tolerance keeps performance stable 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 weight of cement. **StenMix® SUPA 215** 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 215** 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. Shelf life is 1 year in unopened packaging.

Products must be stored at +5 °C to +35 °C in enclosed storage protected from direct sunlight. Low temperatures may cause crystallization of the product; in this case, the product can be used after being warmed to +20 °C and

### Set Retarding, High Performance Superplasticizer

#### Highlights

- 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 a void-free concrete mass with a smooth surface finish
- Eliminates the risk of segregation
- Reduces the amount of vibration required
- Increases the impermeability of concrete



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.

**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       |               | Modified polyvinyl acetate-co-maleamide polymer |
| Density @20 °C             | EN ISO 2811-2 | 1.15 ± 0.01 g/cm <sup>3</sup>                   |
| pH                         | ISO 4316      | 6 ± 1                                           |
| Solids Content (by weight) | EN ISO 3251   | 31.5% ± 1%                                      |
| Chloride Content           | 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.

