

1. Product Profile

StenMix® SUPA 700 is a high range, water reducing, super plasticizing admixture raw material for Portland cement concrete. It is based on an ionic polymer of VAM and maleimide, which functions as a strong ionic dispersant for concrete components. It can be used to boost performance of lignosulphonate, BNSF and melamine sulphonate based admixtures that conform to requirements of TS EN 934-2 Table 3 (High Range Water Reducer/Plasticizer Standard) and ASTM C 494 Type F (Standard Specification for Chemical Admixtures for Concrete - Water Reducing, High Range Admixtures).

StenMix® SUPA 700 is available in 1200 kg IBC tanks or in bulk.

2. Uses

StenMix® SUPA 700 is suitable for enhancing the dispersion power of traditional superplasticizers. It can be used to increase water reduction and expected ultimate strength of the admixture formulation.

StenMix® SUPA 700 can be used to replace about 20% of naphthalene sulphonate content of high range naphthalene sulphonate based admixtures to achieve PCE-like water reduction performance. This use is especially prevalent when the clay content of the concrete is expected to be variable.

StenMix® SUPA 700, can be used to replace about 5%-15% of polymer content of superplasticizers to economize on raw materials.

StenMix® SUPA 700, decreases the water requirement of the concrete by 15%-40% when dosage limits are observed.

3. Application

StenMix® SUPA 700 can be added to admixture production vessel at any stage of production. After **StenMix® SUPA 700** is added to the mixture, highly alkaline environments (pH>9) should be avoided.

StenMix® SUPA 700 containing admixtures have higher water reduction, slightly quicker slump loss and result in harsher concrete. In case harshness and slump loss is too much, **StenMix® SUPA 700** molasses and sodium gluconate can be used to eliminate the effects.

High Range Water Reducer Super Plasticizer

Highlights

- VAM-Maleimide based superplasticizer raw material
- Increase performance of superplasticizers
- Can be used to economize on raw materials
- Can be used with high early strength precast and prestressed concrete
- Can be used in high or variable clay content concrete
- Unlike lignosulphonates and naphthalene, it is a fully synthetic, polymer.

Depending on the design goals, 5%-20% of the solid content of the superplasticizer should be replaced by **StenMix® SUPA 700**. The recommended dosage for **StenMix® SUPA 700** is highly variable depending on the admixture design and expected performance of admixtures. Exact dosage must be determined by laboratory trials.

4. Safety

Applicators and supervisors must read Material Safety Data Sheet (MSDS) carefully and observe the considerations written therein. Emptied packages must be handled in compliance with relevant regulations and laws.

5. Storage

The material must be kept in dry indoor storage. Recommended storage temperature is 0-30°C. Stored in these conditions, the shelf life is 12 months. Do not freeze.

6. Company Liability

The information contained in this document is based on site experience of and laboratory tests done by **Stenkim**® and meant to give general information. It is the purchaser's responsibility to ensure applicability of products to their use. All **Stenkim**® products are available in specified quality and conditions. The company accepts no liability whatsoever unless the transportation, storage, application conditions and customer use are overseen by **Stenkim**®.

Stenkim® reserves the right to update all information contained in this document without notice.

7. Technical Data

Properties	Results
Appearance - Color	Dark Transparent Liquid
Chemical Structure	Aqueous solution of sodium salt of poly maleimide-co-vinyl acetate
Density	1.17 kg/l $\pm$ 0.02 kg/l
pH	5.0 - 7.0
Solid content (by weight)	32.0 % $\pm$ 1.0 %
Chloride content	Less than 0.1 %
Freezing Point	- 5 °C
Viscosity (@23°C)	90cP

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