

1. Product Description

StenMix® NORA 100 is a ready-to-use, lignosulfonate based water-reducing and plasticizing concrete admixture for Portland cement concrete. **StenMix® NORA 100** conforms to requirements of EN 934-2 Table 2 (Water Reducing/Plasticizing Concrete Admixture Standard) and ASTM C 494 Type A (Water Reducing Concrete Admixture Standard).

2. Uses

StenMix® NORA 100 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. It can be used in high strength precast and pre-stressed concrete applications, as well as in concrete work requiring early formwork removal.

StenMix® NORA 100 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 allows the concrete to set in normal time without retarding effect. **StenMix® NORA 100** increases the impermeability of concrete by reducing its water requirement. When the dosage limits are observed, **StenMix® NORA 100** reduces the water requirement of concrete by 5-10%.

3. Application

StenMix® NORA 100 is recommended at 1% to 2% by cement weight. **StenMix® NORA 100** should not be added directly to dry cement, but should be added to the mixture along with the mixing water during concrete preparation. **StenMix® NORA 100** 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. 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. Emptied packages must be handled in compliance with relevant regulations and laws.

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.

When stored in unopened packaging, the shelf life is 12 months. 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.

Water Reducer / Plasticizer Concrete Admixture

Highlights

- Lignosulphonate based water reducer, plasticizer admixture
- Improves surface finish and density
- Can be used with high early strength precast and prestressed concrete
- Improves workability
- Eliminates the risk of segregation
- Reduces the amount of vibration required
- Decreases the permeability of the concrete by decreasing the amount of water required by 5%-10% when dosage limits are observed



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		Dark Transparent, Brown
Chemical Composition		Lignosulfonate Based Organic Polymer
Density		1.07 kg/l $\pm$ 0.01 kg/l
pH		6 $\pm$ 1
Solid Content		15.5% $\pm$ 1%
Viscosity		10 $\pm$ 5 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.

