

StenMix® HIPA 431QC

1. Product Profile

StenMix® HIPA 431QC is a ready to use polycarboxylic ether (PC) based, high range, water reducing, superplasticising admixture for portland cement concrete.

StenMix® HIPA 431QC conforms 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).

StenMix® HIPA 431QC is available in **1050 kg IBCs**.

2. Uses

StenMix® HIPA 431QC is suitable for production of highly flowable concrete to improve surface finish and density. It is especially suitable for use with floor slabs, foundations, ceilings, walls, beams and columns with densely packed reinforcements. It can also be used with high early strength precast and prestressed concrete or when early removal of form work is required.

StenMix® HIPA 431QC substantially improves workability when added to premixed concrete. It eliminates the risk of segregation during concrete transport and placement. It reduces the amount of vibration required. It mildly retards curing reaction of the concrete.

It decreases the permeability of the concrete by decreasing amount of water required.

StenMix® HIPA 431QC, decreases the water requirement of the concrete by 15%-30% when dosage limits are observed.

High Range Water Reducer / Super Plasticizer

Highlights

StenMix® HIPA 431QC

- Polycarboxylic ether based high range water reducing, superplasticising admixture
- It improves surface finish and density
- It has high early strength
- It is slump retentive
- It can be used with high early strength precast and prestressed concrete
- It improves workability
- It eliminates the risk of segregation during concrete transport and placement
- It reduces the amount of vibration required
- It decreases the permeability of the concrete by decreasing amount of water required by 15% - 30% when dosage limits are observed

3. Application

The recommended dosage for **StenMix® HIPA 431QC** is 0.5% to 2% based on weight of the cement. **StenMix® HIPA 431QC** should be added with the mixing water. Most

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preferably **StenMix[®] HIPA 431QC** is added to the gauging water at the plant, it should not be added to dry cement.

Exact dosage must be determined by laboratory trial considering required workability and strength of concrete.

4. 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.

5. 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.

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.

Technical Data

Properties	Results
Appearance - Color	Liquid - Brown-yellow color
Chemical Structure	Modified Polycarboxylate Ether
Density	1.04kg/L \pm 0.02kg/L
pH	5.7 \pm 1
Solid Content	21.50% \pm 1
Chloride	< 0,1%
Freezing Point	- 5 °C
Viscosity (@ 23 °C)	44 cP \pm 12 cP

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