

StenMix[®] HIPA 442HS

1. Product Profile

StenMix[®] HIPA 442HS is a ready to use polycarboxylic ether (PC) based, high range, water reducing, superplasticising admixture for Portland cement concrete.

StenMix[®] HIPA 442HS 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 Admixtures).

StenMix[®] HIPA 442HS is available in **200 kg** drums and **1000 kg** IBCs.

2. Uses

StenMix[®] HIPA 442HS 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 442HS 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 does not retard curing reaction of the concrete, so the curing time is not increased. It decreases the permeability of the concrete by decreasing amount of water required.

StenMix[®] HIPA 442HS, decreases the water requirement of the concrete by 15%-30% when dosage limits are observed.

3. Application

The recommended dosage for **StenMix[®] HIPA 442HS** is 0.5% to 2% based on weight of the

High Range Water Reducer / Super Plasticizer

Highlights

StenMix[®]HIPA 442HS

- Polycarboxylic ether based high range water reducing, superplasticising admixture
- It improves surface finish and density
- 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

cement. **StenMix[®] HIPA 442HS** should be added with the mixing water. Most preferably **StenMix[®] HIPA 442** is added to the gauging water at the plant, it should not

StenMix[®] HIPA 442HS

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 storages. 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.

Technical Data

| Property | Result |
|-------------------------|--|
| Appearance - Color | Brown Liquid |
| Chemical Structure | Organic polymer based on polycarboxylate ether |
| Density | 1.05 kg/l \pm 0.05 kg/l |
| pH | 5 - 7 |
| Solids Content (weight) | 32 % \pm 1,5 |

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

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.