

## PRODUCT DATA SHEET

# Sika® ViscoCrete®- 3054 ES BD

### High Performance Superplasticizing Admixture

#### DESCRIPTION

Imparts very high workability, retention and allows a large reduction in water content and gives high ultimate strength.

#### USES

Sika® ViscoCrete®- 3054 ES BD a superplasticizer specially designed for free flowing concrete in floors, slabs, foundations, slender components with dense reinforcement, walls and columns and other structural elements.

Sika® ViscoCrete®- 3054 ES BD is mainly used for the following types of concrete:

- High performance concrete
- High strength concrete
- Ready mixed concrete
- Self compacting concrete
- Precast concrete
- Prestressed concrete
- Pumped concrete

#### FEATURES

Sika® ViscoCrete®- 3054 ES BD produces a more uniformly cohesive high quality free flowing concrete. Sika® ViscoCrete®- 3054 ES BD will result in the following advantages of concrete:

- Improved dispersion properties
- Very high water reduction
- Improved strength and density
- Improved durability
- Improved cohesion properties
- Improved water tightness
- Improved rheology
- Improved flowability
- Reduced drying shrinkage
- Improved workability retention
- Water reduction up to 25-35 % depending on dosage\*
- 28 days strength improved by up to 40% over control\*

\* This will depend on dosage and mix design

#### CERTIFICATES AND TEST REPORTS

Complies with IS 9103, ASTM C494 Type G, EN 934-2 T 11.1/11.2

#### PRODUCT INFORMATION

<b>Composition</b>	Modified Polycarboxylate Ether (PCE)
<b>Packaging</b>	230 Kg, 1000 Kg or bulk on request.
<b>Colour</b>	Light to dark brown liquid
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost. IMPROTANT Colorent is used just to pigment the product. With time, it can be

faded, but will not affect the performance of the product.

Density	~1.08 kg/l at 25°C
pH-Value	≥ 6
Total chloride ion content	Nil

## APPLICATION INFORMATION

Recommended dosage	Standard dosage will vary from 0.3% to 2% by weight of cement. Exact dosage rates are dependent on the quality of cement, aggregates, water/cement ratio and ambient temperature. Therefore, in many cases it is advisable to carry out trial mixes. Higher dosage may be used if agreed by engineer and consultant. Stir well before use.
Compatibility	Sika® ViscoCrete®- 3054 ES BD may be combined with many other Sika® products. Compatible with all types of cements and cementitious materials. Important: Always conduct trials before combining products in specific mixes and combinations.
Dispensing	Sika® ViscoCrete®- 3054 ES BD is added to the gauging water or added with it into the concrete mixer. To take advantage of the high water reduction, a wet mixing time, which is depending on the mixing conditions and mixer performance, of at least 60 seconds is recommended. To avoid excess water in the concrete, the final dosage must begin only after 2/3 of the wet mixing time.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

When using Sika® ViscoCrete®- 3054 ES BD a suitable mix design has to be taken into account and local material sources shall be trialled.

Sika® ViscoCrete®- 3054 ES BD shall not be added to dry cement.

Excessive water addition or overdosing may cause bleeding or segregation.

Frost:

If frozen and / or if precipitation has occurred, Sika® ViscoCrete®- 3054 ES BD may be used after thawing slowly at room temperature followed by intensive remixing.

**IMPORTANT**

For any confusion, please follow the latest PDS and/or consult with the local Sika representatives.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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### **Product Data Sheet**

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