

## PRODUCT DATA SHEET

# SikaPlast<sup>®</sup>-2004 NS BD

High efficient superplasticizer

### DESCRIPTION

SikaPlast<sup>®</sup>-2004 NS BD is the latest development of superplasticizer for concrete. It meets the requirements for high range water reducing superplasticizers.

### USES

SikaPlast<sup>®</sup>-2004 NS BD is a unique multipurpose superplasticiser that is particularly suitable for the production of ready mixed concrete. Additionally it provides high water reduction and improved fresh concrete characteristics.

With its outstanding cost / performance SikaPlast<sup>®</sup>-2004 NS BD is used for the following:

- A wide range of applications where excellent workability is requested
- Concrete with high water reduction
- High efficient concrete applications

### CHARACTERISTICS / ADVANTAGES

SikaPlast<sup>®</sup>-2004 NS BD is a powerful superplasticiser based on advanced technology which gives the following advantages:

- Strong water reduction, resulting in high density, high strength and reduced permeability
- Less sensitive against variations in aggregates and / or different cement types
- High efficiency even at low dosage rates
- Extended workability in conjunction with subsequent strength development
- Superior plasticising effect, resulting in improved flow, placing and compaction characteristics
- Its Chloride free, does not attack reinforcement.

### APPROVALS / STANDARDS

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

### PRODUCT INFORMATION

<b>Chemical Base</b>	Modified Polycarboxylate
<b>Packaging</b>	230 kg HDPE carboy or Tanker supply
<b>Appearance / Colour</b>	Light 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.
<b>Density</b>	~1.09 kg/l at 25°C
<b>pH-Value</b>	≥ 6

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.5 % to 2.0 % b. w. o. c. Optimum dosage has to be finalized through site trials. Stir well before use.
<b>Compatibility</b>	SikaPlast®-2004 NS 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.
<b>Dispensing</b>	SikaPlast®-2004 NS 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.

## 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.

## LIMITATIONS

When using SikaPlast®-2004 NS BD a suitable mix design has to be taken into account and local material sources shall be trialled.

SikaPlast®-2004 NS 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, SikaPlast®-2004 NS BD may be used after thawing slowly at room temperature followed by intensive remixing.

## 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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