

## PRODUCT DATA SHEET

# SikaPaver<sup>®</sup>-2016 ES BD

### High Performance Superplasticizing Admixture

#### DESCRIPTION

SikaPaver<sup>®</sup>-2016 ES BD admixture for use in precast / paver industry for very high water reduction with improvement of high early strength.

#### USES

SikaPaver<sup>®</sup>-2016 ES BD is suitable for concreting of the following applications:

- Precast and Pre stressed concrete elements
- Block paving (grey/coloured)
- Cement tiles (grey/coloured)
- Paving flags
- Kerb stones Edging and other items for garden and landscape design
- Building blocks and bricks
- On-site concrete casting

#### FEATURES

SikaPaver<sup>®</sup>-2016 ES BD offers substantial benefits to the precast and semi dry precast concrete producers:

- Efficient dispersion and distribution of cement, additives and pigments
- Improved movement of the concrete through the machine
- High early strength
- No adverse effect on ultimate strength
- Sufficient water reduction
- Improved surface finish
- Improved water tightness
- More economic concrete mix designs

#### CERTIFICATES AND TEST REPORTS

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

#### PRODUCT INFORMATION

<b>Composition</b>	Modified Poly Carboxylate Ether (PCE)
<b>Packaging</b>	50 kg, 230 kg, 1000 kg or Bulk if required
<b>Appearance and colour</b>	Light to dark brown colour 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.
<b>Density</b>	1.08 ± 0.02 kg/l at 25°C
<b>pH-Value</b>	≥ 6
<b>Total chloride ion content</b>	Nil

# APPLICATION INFORMATION

<b>Consumption</b>	Standard dosage will vary from 0.2% 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.
<b>Compatibility</b>	SikaPaver®-2016 ES BD may be combined with many other Sika® products. Compatible with all types of cements and cementitious materials. <b>IMPORTANT</b> Always conduct trials before combining products in specific mixes and combinations. <b>IMPORTANT</b> For any confusion, please follow the latest PDS and/or consult with the local SIKA representatives.
<b>Dispensing</b>	SikaPaver®-2016 ES BD can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added. The addition of SikaPaver®-2016 ES BD to dry aggregate or cement is not recommended. To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.

## 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 SikaPaver®-2016 ES BD a suitable mix design has to be taken into account and local material sources shall be trialed.

SikaPaver®-2016 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, SikaPaver®-2016 ES BD may be used after thawing slowly at room temperature followed by intensive re-mixing.

## 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.

## APPLICATION METHOD / TOOLS

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components.

Fresh concrete must be cured properly and curing ap-

plied as early as possible.

## CLEANING OF EQUIPMENT

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

Hardened / cured material can only be mechanically removed.

## 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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