

## PRODUCT DATA SHEET

# Sika® Plastiment® SD-1

Compaction aid for semi-dry concrete

### DESCRIPTION

Sika® Plastiment® SD-1 is a liquid admixture developed for semi-dry concrete.

### USES

Sika® Plastiment® SD-1 is used for producing optimised semi-dry concrete with a very low moisture content. Semi-dry concrete production is generally used in the manufacture of machine-made concrete products associated with instant de-moulding.

Sika® Plastiment® SD-1 is mainly used for the following applications:

- Block paving
- Kerbstones
- Edgings and other items for garden and landscape design
- Building blocks and bricks

### CHARACTERISTICS / ADVANTAGES

Sika® Plastiment® SD-1 offers substantial benefits to the producer of semi-dry concrete products:

- Efficient dispersion and distribution of cement, additives and pigments
- Air entrainment
- Improved movement of the concrete through the machine (faster mould filling)
- Optimised compaction with shorter pressing time and increased throughput (shorter production cycle)
- Increased "green" strength on immediate de-moulding [ keeps the shape of freshly de-moulded semi-dry concrete products because it prevents slumping after de-moulding ]
- More economic concrete mix designs
- Create superior products
- Closer textured and more uniform surfaces
- Consistent product quality due to a homogenous concrete mix
- Increased density
- Less variation in densities and strengths across the area of the mould (constant spread of density & strength over the pallet)
- Increased freeze-thaw resistance
- Less customer returns and second grade products

### APPROVALS / STANDARDS

Conforms to the requirements of BS 8443

### PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| <b>Chemical Base</b>       | Lignosulphonate and surfactant blend   |
| <b>Packaging</b>           | 1000 litre IBC   |
| <b>Appearance / Colour</b> | 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 +5°C and +25°C. Protect                                |

|                                   |  |
|-----------------------------------|--|
|                                   | from direct sunlight and frost.  |
| <b>Density</b>                    | 1.08 Kg/Litre  |
| <b>pH-Value</b>                   | 5.0 ± 1.0  |
| <b>Total Chloride Ion Content</b> | <0.1%  |
| <b>Recommended Dosage</b>         | 0.2 – 1.0% by weight of cement   |
| <b>Compatibility</b>              | Sika® Plastiment® SD-1 may be combined with many other Sika products.<br><br>Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.   |
| <b>Dispensing</b>                 | Sika® Plastiment® SD-1 is added to the gauging water or added with it into the concrete mixer.<br><br>In general a mixing time of at least 30 seconds is essential, although the actual mixing time after adding the admixture depends on the individual circumstances and should be determined by trials. |

## 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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

The standard rules of good concreting practice, concerning production and placing, are to be followed.

Production trials shall be carried out before concreting, especially when using a new mix design or producing new concrete components.

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

### NOTES ON APPLICATION / LIMITATIONS

When using Sika® Plastiment® SD-1 a suitable mix design has to be taken into account and local material

sources shall be trialled.

Sika® Plastiment® SD-1 shall not be added to dry cement.

Sika® Plastiment® SD-1 can be added with the mixing water or introduced at the end of the mixing process. Sika® Plastiment® SD-1 must not be used for wet cast concrete as this could result in excessive air entrainment and subsequent loss of strength.

Excessive water addition or overdosing may cause retardation.

Support from our Technical Service Department is recommended.

Frost:

If frozen and / or if precipitation has occurred, Sika® Plastiment® SD-1 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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Sika® Plastiment® SD-1  
July 2021, Version 01.01  
02140406100000038

SikaPlastimentSD-1-en-PK-(07-2021)-1-1.pdf

