

# PRODUCT DATA SHEET

## SikaTard<sup>®</sup>-930

### CEMENT HYDRATION STABILIZER

#### DESCRIPTION

SikaTard<sup>®</sup>-930 is an admixture developed for the control of cement hydration. SikaTard<sup>®</sup>-930 stabilises concrete mixes without setting for extended periods and without negatively influencing their quality.

#### USES

SikaTard<sup>®</sup>-930 is mainly used in wet and dry spray shotcrete where cement hydration of the concrete mix is prevented until it is required. It is therefore possible to stabilise mixed concrete for hours or even days i.e. in tunnelling work.

#### CHARACTERISTICS / ADVANTAGES

- SikaTard<sup>®</sup>-930 blocks cement hydration. This is in contrast to other stabilisers or retarders, which only retard hydration of the cement.
- The effect of SikaTard<sup>®</sup>-930 may be immediately stopped when Sika<sup>®</sup> Sigunit<sup>®</sup> is used as an accelerator. Thus hydration of the previously stabilised shotcrete will start immediately.
- SikaTard<sup>®</sup>-930 does not contain chlorides or any other steel corrosion promoting materials. It can therefore be used in steel reinforced concrete construction without restriction.

#### APPROVALS / STANDARDS

Conforms to the requirements of EN 934 - 5, Table 2.

#### PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| <b>Chemical Base</b>       | Polycarboxylic acid compounds.   |
| <b>Packaging</b>           | 255 kg Drum<br>Bulk supply   |
| <b>Appearance / Colour</b> | liquid, colourless   |
| <b>Shelf Life</b>          | 24 months from date of production if stored in original, undamaged and sealed containers.                          |
| <b>Storage Conditions</b>  | Protected from direct sunlight at temperatures between 1°C and 35°C. Use clean containers when delivered in bulks. |
| <b>Density</b>             | ~1.1 kg/L  |
| <b>pH-Value</b>            | ~3   |

#### APPLICATION INFORMATION

## Recommended Dosage

SikaTard®-930 is normally used at between 0.2 % to 3 % by weight of cement and added at the batching plant. The following table shows the approximate retarded stabilisation times at various dosages.

| SikaTard®-930 dosage | Stabilization time in hours |
|----------------------|-----------------------------|
| 0.4%                 | ~8                          |
| 0.6%                 | ~10                         |
| 0.8%                 | ~15                         |
| 1.0%                 | ~20                         |
| 1.2%                 | ~25                         |
| 1.4%                 | ~30                         |
| 1.6%                 | ~40                         |
| 1.8%                 | ~60                         |
| 2.0%                 | ~75                         |

The table is to be used as guideline only - for specific stabilisation periods, trials with the actual cement are essential.

SikaTard®-930 is added to the mix at the batching plant.

## LIMITATIONS

SikaTard®-930 is generally suitable for all types of Portland cement. For specific stabilisation periods pre-trials are essential.

Contact local Sika technical service for support.

## 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.

## LOCAL RESTRICTIONS

## 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.

## 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.

### Sika India Pvt. Ltd.

620, Diamond Harbour Road  
Commercial Complex II  
Kolkata - 700 034  
Tel : +91 33 24472448  
Fax : +91 33 23978688  
Mail : info.india@in.sika.com



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