

# PRODUCT DATA SHEET

## SikaTard<sup>®</sup> R

### SET RETARDING/STABILISING ADMIXTURE

#### DESCRIPTION

SikaTard<sup>®</sup> R is a liquid admixture developed for the control of cement hydration. SikaTard<sup>®</sup> R retards/stabilises sand/cement masonry mortars/Grouts and concrete mixes.

#### USES

SikaTard<sup>®</sup> R is used as retarding/stabilizing admixture in concrete, grout where a controlled extension of setting time is required.

- Large volume pours
- Backfill grout stabilization in tunnel
- Avoiding of cold joints
- Construction joints
- Difficult placing conditions
- Elevated temperature

#### CHARACTERISTICS / ADVANTAGES

SikaTard<sup>®</sup> R provides the following beneficial properties:

- Improvement in open time for backfill grouts in tunnel
- Increased setting time in hot weather concreting
- Accelerated hardening after setting
- Increased ultimate strengths
- Long lasting control over slump/flow loss.
- Better surface finish
- Chloride free: does not attack reinforcement

#### APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-3 Table 3, ASTM C 494 Type B, IS 9103

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Special polymer composition
<b>Packaging</b>	230 kg drum
<b>Appearance / Colour</b>	Clear to 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>	~1.06 kg/l at 25°C
<b>pH-Value</b>	≥ 6

#### APPLICATION INFORMATION

## Recommended Dosage

0.20 – 1.5% by weight of cement. The retardation rate achieved is directly dependent on the dosage rate which in turn is influenced by quality of cement and aggregates, w/c ratio and temperatures.  
It is advisable to carry out trial mixes to finalise the optimum dosage rate.

## Compatibility

SikaTard® R may be combined with many other Sika products.  
Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.  
Compatible with all types of cements and cementitious materials.

## APPLICATION INSTRUCTIONS

### DISPENSING

SikaTard® R can be dispensed directly into the mixing water or added simultaneously into the mixer.

### LIMITATIONS

When accidentally over dosing occurs it will retard the setting. But the ultimate strength will not be affected, if adequate care is taken.

SikaTard® R may be used after thawing slowly at room temperature followed by intensive remixing.

### 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 Material Safety Data Sheet 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



Product Data Sheet  
SikaTard® R  
November 2018, Version 01.01  
021302011000000253

SikaTardR-en-IN-(11-2018)-1-1.pdf