

## PRODUCT DATA SHEET

# SikaTard<sup>®</sup>-20 E

### HYDRATION CONTROLLING ADMIXTURE OF CEMENT

#### DESCRIPTION

SikaTard<sup>®</sup>-20 E is a liquid admixture, brown color, controller of the hydration of the cement. Does not contain chlorides. SikaTard<sup>®</sup>-20 E is a liquid concrete admixture that allows to control the hydration of the cement in a plastic state for several hours or days, preserving in the desired period of time the workability necessary for its transport, placement and compaction.

#### USES

SikaTard<sup>®</sup>-20 E allows any type of concrete to be kept fresh for a long periods of time even in extreme warm climates. In these periods of times the concrete can be stored in the ready-Mix truck and later can be placed and compacted as a conventional concrete.

#### CHARACTERISTICS / ADVANTAGES

##### In fresh condition

- It allows to stabilize the mixtures of concrete that were not placed at the end of the day to avoid its setting in the night and even during days. Increases the time of handling of concrete up to days according to the dose used.
- Avoid the loss of concrete in works that have postponed their placement activities.

- Allows to transport the concrete at greater distances under extreme temperature conditions (Even more than +30 °C)
- Increases the workability times of concrete produced with cement not added.
- It allows proper placement and compacting of accelerated concretes with chlorides or nitrites in extreme climates.
- It allows to rationalize the use of concrete in small works.
- By adding the admixture to the wash water of the mixer, it suspends the processes of hydration of the cementitious residues allowing its use in the production of concrete and thus saving in the process of recycling of the water and disposocision of solid residues of the concrete.
- Reduces labor costs in washing equipment and final disposal of solid waste.
- It reduces the need for sites for washing and waste disposal of industrial concrete production.

##### In hardened state

- It decreases the maximum temperature of the concrete up to +4 °C.
- It does not significantly affect the initial strength of the concrete.
- It increases the final resistance of concrete with respect to a standard mixture without admixture and with the same W/C ratio.
- Reduces the permeability of the concrete mixture.

#### PRODUCT INFORMATION

<b>Packaging</b>	200 L drum
<b>Appearance and Colour</b>	Liquid / Dark brown
<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 its original container tightly closed, in a cool place and indoors. Normal chemical precautions must be taken for transport.
<b>Density</b>	1.19 ± 0.01 kg/L (at +20 °C)

## APPLICATION INFORMATION

### Recommended dosage

The dose of SikaTard®-20 E will be determined by field tests in accordance with the desired workability time. The amount, type of cement, aggregates, water characteristics and site temperature will affect the results obtained. According to practical experience, the dose of SikaTard®-20 E ranges from 0.1 % to 0.6 % by weight of cement.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

The optimum dose of SikaTard®-20 E, should be obtained from tests with the materials and under the conditions of each project.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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.

### PT. Sika Indonesia Head Office and Manufacturing

Jl. Raya Cibinong-Bekasi Km.20  
Limusnunggal-Cileungsi  
Bogor 16820-Indonesia  
Tel. +62 21 8230025, Fax +62 21  
8230026



### Product Data Sheet

SikaTard®-20 E  
November 2021, Version 01.01  
021406011000000141

SikaTard-20E-en-ID-(11-2021)-1-1.pdf