

**BUILDING TRUST** 

PRODUCT DATA SHEET

# SikaTherm®-290 RE

Water-based lamination adhesive for textile and fabric carriers

## TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Properties		Component A	Component B
		SikaTherm®-290	SikaTherm®-026
Chemical base		Polyurethane	Polyisocyanate
Color (CQP001-1)		White	Colorless (UV), blue
Cure mechanism		Polyaddition	
Density (uncured)		1.00 kg/l	1.20 kg/l
pH value (CQP004-1)		7.5	
Solid content		56 %	
Mixing ratio	by weight	100 : 5	
	by volume	100 : 4.2	
Viscosity (by Brookfield)	RVT, Sp. 3/10 rpm	6 000 mPa·s <sup>A</sup>	
	RVT, Sp. 2/10 rpm		600 mPa·s <sup>A</sup>
Coat weight		80 – 120 g/m <sup>2</sup>	
Application temperature		15 – 25 °C	
Pot-life		8 hours <sup>B</sup>	
Drying time (CQP565-1)		30 minutes <sup>B</sup>	
	drying tunnel at 50 °C	10 minutes	
Activation temperature		60 °C	
Shelf life		9 months	12 months
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CQP = Corporate Quality Procedure

SikaTherm®-290 RE is a multipurpose, 2-com-

ponent, water-based polyurethane dispersion

It is designed for lamination applications and

can be applied by spray, roller or brush. It can

be used for press lamination (two-side applic-

**DESCRIPTION** 

adhesive.

ation).

 $^{\mbox{\scriptsize A)}}$  at 20 °C

## PRODUCT BENEFITS

- Low emission
- High initial strength
- High resistance against hydrolysis
- Reduced odour
- Easy reactivation

B) 23 °C / 50 % r.h.

## AREAS OF APPLICATION

SikaTherm®-290 RE is suitable for permanent bonding of polar plastics as well as for wood, foam, textiles, painted and primed steel. Non polar plastics like PP and PE can be bonded after proper physical pre-treatment.

SikaTherm®-290 RE is specially designed for the lamination of decorative materials of headliners where low emissions are required. This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

PRODUCT DATA SHEET

**SikaTherm®-290 RE**Version 01.01 (08 - 2025), en\_DEAUTO 013510202900901110

#### **CURE MECHANISM**

The curing of SikaTherm®-290 RE starts after the evaporation of water.

After the evaporation process the chemical crosslinking with the hardener takes place.

At room temperature the full curing is completed after 72 hours.

Higher temperatures speed up and lower temperatures slow down the curing and drying process.

#### CHEMICAL RESISTANCE

SikaTherm®-290 RE is temporarily resistant to aqueous surfactant, weak alkaline/ acids solutions, fuels, solvents and mineral oils.

The chemical resistance is influenced by several factors such as chemical composition, concentration, period of exposure and temperature. Therefore a project related testing in case of chemical or thermal exposure is required.

#### METHOD OF APPLICATION

# Surface preparation Mixing process

Both components must be mixed homogeniously in the right mixing ratio.

SikaTherm®-290 RE is suitable for manual and automated mixing devices.

Care must be taken to avoid air inclusion.

#### Application

SikaTherm®-290 RE is typically applied by spray, roller or brush. The application parameters and the subsequent processing vary depending on the application and the process used (vacuum or press lamination, two- or one-sided application, flocking, etc.).

Consider, if processing SikaTherm®-290 RE by spray application, inhalation of substances must be prevented by suitable air extraction or other means.

The Product can be dried at ambient condition as well as in a drying tunnel. The drying time at 50 °C shall not exceed 10 minutes.

For the bonding process the Product needs a reactivation temperature of 60 °C and sufficient pressure on the whole bonding area. In case of automated dosing applications a suitable filter system must be installed.

For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

#### Removal

Uncured SikaTherm®-290 RE may be removed from tools and equipment with warm water. Once cured, the material can only be removed mechanically.

Hands and exposed skin shall be washed immediately using hand wipes such as Sika® Cleaner-350H or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

#### STORAGE CONDITIONS

SikaTherm®-290 is frost sensitive and has to be stored at temperatures between 5 °C and 25 °C in a dry place.

SikaTherm®-026 has to be stored at temperature below 30 °C in a dry place.

### **FURTHER INFORMATION**

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheet
- Application Manual SikaTherm®

### PACKAGING INFORMATION

SikaTherm®-290 (A)

Pail	25 kg
Container	1050 kg
SikaTherm®-026 (B)	

Can	1.25
Drum	170 kg

#### **BASIS OF PRODUCT DATA**

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

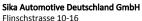
#### **HEALTH AND SAFETY INFORMATION**

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

#### DISCLAIMER

The information, and, in particular, the recommendations relating to the application and enduse 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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