

## PRODUCT DATA SHEET

# SikaTack® Panel-50

1-component silicone for panel bonding in ventilated facades

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

Chemical base	1-component silicone
Color (CQP001-1)	Grey
Cure mechanism	Moisture-curing
Density	1.4 kg/l
Non-sag properties (CQP061-4 / ISO 7390)	Good
Application temperature	ambient 5 – 40 °C (40 – 105 °F)
Skin time (CQP019-1)	25 minutes <sup>A</sup>
Curing speed (CQP049-1)	(See Diagram 1)
Shore A hardness (CQP023-1 / ISO 7619-1)	38
Tensile strength (CQP036-1 / ISO 527)	2.1 MPa (305 psi)
Elongation at break (CQP036-1 / ISO 527)	450 %
Tear propagation resistance (CQP045-1 / ISO 34)	7 N/mm (40 pli)
Service temperature	-40 – 150 °C (-40 – 302 °F)
Shelf life (CQP016-1)	9 months <sup>B</sup>

CQP = Corporate Quality Procedure

A) 23 °C / 50 % r. h.

B) storage below 25 °C

**DESCRIPTION**

SikaTack® Panel-50 is a non-sag, 1-component silicone of paste-like consistency for structural joints in ventilated facades and interior wall cladding between the vertically installed substructure and the panel that will be subjected to dynamic and static stresses and elevated facade temperatures. It cures on exposure to atmospheric humidity to form a durable elastomer. SikaTack® Panel-50 is part of the SikaTack® Panel system for the economic, concealed fixing of ventilated facades.

**PRODUCT BENEFITS**

- Elastic fixing system, vibration and movement absorbing
- Provides creative opportunities for facade design
- Withstands high dynamic and static stresses and elevated facade temperatures
- Uniform tension over the whole facade panel (no stress points)
- 1-component product, ready to use
- Outstanding UV and weathering resistance
- Bonds well to a wide variety of substrates

**AREAS OF APPLICATION**

SikaTack® Panel-50 is suitable for structural joints in ventilated facades and cladded interior walls between the vertically installed substructure and the facade panel that will be subjected to dynamic and static stresses and even elevated facade temperatures. Suitable substrates are anodized and coated aluminum, glass, metal composite, high pressure laminate and ceramic materials.

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

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SikaTack® Panel-50

Version 01.01 (08 - 2019), en\_US

012636210019001000

## CURE MECHANISM

SikaTack® Panel-50 cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram 1).

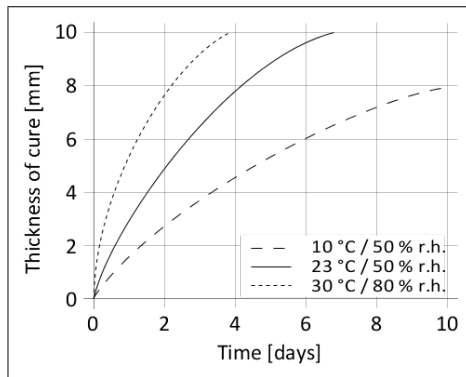


Diagram 1: Curing speed SikaTack® Panel-50

## METHOD OF APPLICATION

### Surface Preparation

Surfaces must be clean, dry and free from grease, oil and dust. Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond.

### Application

The standard geometry for bonding façade panels is at least 12 x 3 mm (1/2 x 1/8 in). The supplied nozzle (10 x 8 mm) ensures proper dimension of the compressed bead (see figure below).

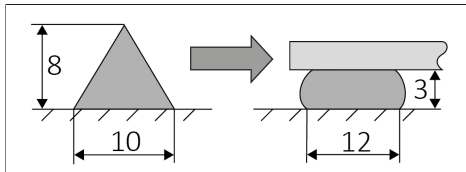


Figure 1: Recommended bead configuration (units = mm)

The optimum temperature for substrate and adhesive is between 60 °F and 78 °F. Do not apply at temperatures below 40 °F or above 105 °F.

To avoid condensation on the surfaces, the temperature of the bonding components (e.g. façade panels, sub-frames) must be at least 3 °F higher than the dew point of the air.

The skin time is significantly shorter in hot and humid climate. The panel must always be installed within 75 % of the skin time determined under local climate conditions (see General Guideline "SikaTack® Panel System"). Never join bonding parts if the adhesive has built a skin. SikaTack® Panel-50 can be processed with hand, pneumatic or electric driven piston guns.

## Removal

Uncured SikaTack® Panel-50 can be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin have to 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.

## Application Limits

SikaTack® Panel-50 used for panel bonding is always used in conjunction with SikaTack® Panel Fixing Tape. SikaTack® Panel Fixing Tape ensures the correct joint thickness and keeps the bonded panels initially in place. By curing SikaTack® Panel-50 builds up strength and takes over the long-term load bearing.

SikaTack® Panel Fixing Tape is not a structural component.

## 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 Sheets
- General Guideline SikaTack® Panel System

## PACKAGING INFORMATION

Unipack	600 ml
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## 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.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by contacting SIKA's Technical Service Department via email at [tsmh@us.sika.com](mailto:tsmh@us.sika.com). Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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