

PRODUCT DATA SHEET

Sikasil® WT-121 LUM

Self-leveling, narrow joint silicone sealant with luminescent pigment

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component silicone
Color (CQP001-1)	Translucent
Cure mechanism	Moisture-curing
Cure type	Neutral
Density (uncured)	0.98 kg/l
Application temperature	ambient 5 – 40 °C (41 – 104 °F)
Skin time (CQP019-1)	20 minutes ^A
Tack free time (CQP019-3)	48 minutes ^A
Curing speed (CQP049-1)	(see diagram 1)
Shore A hardness (CQP023-1 / ISO 48-4)	21 days curing at 23 °C (73 °F) / 50 % r.h. 20
Tensile strength (ASTM D412)	0.5 MPa (70 psi)
Elongation at break (ASTM D412)	350 %
Service temperature	-40 – 150 °C (-40 – 302 °F)
Shelf life	12 months ^B

CQP = Corporate Quality Procedure

^A) 23 °C (73 °F) / 50 % r.h.^B) stored below 25 °C (77 °F)
DESCRIPTION

Sikasil® WT-121 LUM is a self-leveling, one component, neutral cure silicone sealant, which is especially suitable for window fabrication. For in-process quality control purposes, Sikasil® WT-121 LUM contains a luminescent pigment that aids in identifying the presence of the sealant using UV light.

PRODUCT BENEFITS

- Meets the requirements of AMAA 803.3
- Luminescent pigment for UV tracing
- Faster production capability in assembly processes
- Designed for flexibility in dynamic joint movement
- Superior UV and weathering resistance
- Bonds to most substrates without priming
- Compatible with IG sealants

AREAS OF APPLICATION

Sikasil® WT-121 LUM has a wide adhesion range on many substrates such as glass, (coated) metal, wood, PVC and many other substrates. Sikasil® WT-121 LUM is suitable to be used as a sealant for window / door fabrication, small joints, miter joints, screw heads, and general component assembly applications. This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

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Version 02.01 (03 - 2023), en_US

012603141219001000

CURE MECHANISM

Sikasil® WT-121 LUM 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).

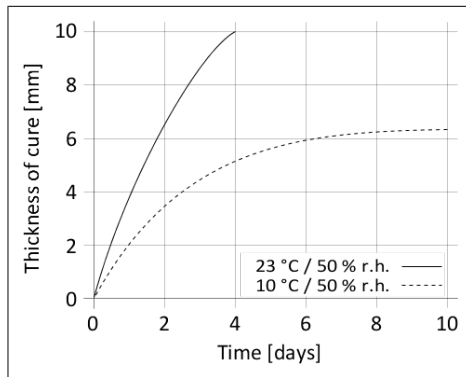


Diagram 1: Curing Speed of Sikasil® WT-121 LUM

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 optimum temperature for substrate and sealant is between 15 °C and 25 °C (59 °F and 77 °F).

Sikasil® WT-121 LUM can be processed with pump equipment. For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Joints must be properly dimensioned.

Basis for calculation of the necessary joint dimensions are the technical values of the adhesive and the adjacent building materials, the exposure of the building elements, their construction and size as well as external loads.

Joints deeper than 15 mm (9/16 in.) must be avoided.

Tooling and finishing

Tooling and finishing must be carried out within the skin time of the sealant or adhesive. When tooling freshly applied Sikasil® WT-121 LUM press the adhesive to the joint flanks to get a good wetting of the bonding surface. No tooling agents to be used.

Removal

Uncured Sikasil® WT-121 LUM may 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 or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

Overpainting

Sikasil® WT-121 LUM cannot be overpainted.

Application Limits

Recommended solution from Sika for structural glazing and window bonding are usually compatible to each other. These solutions consist of products such as Sikasil® SG, IG, WS and WT series. For specific information regarding compatibility between various Sikasil® products and other Sika products contact the Technical Department of Sika Industry.

To exclude materials influencing Sikasil® WT-121 LUM, all materials such as gaskets, tapes, setting blocks, sealants, etc., in direct and indirect contact have to be approved by Sika in advance.

Where two or more different reactive sealants are used, allow the first to cure completely before applying the next one.

Do not use Sikasil® WT-121 LUM on PMMA and PC elements as it may cause environmental stress cracking (crazing).

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

PACKAGING INFORMATION

Drum	52 gal
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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 or by contacting SIKA's Technical Service Department via email at 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.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.** Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling +1 800-933-7452.

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Sika Corporation

30800 Stephenson Highway
Madison Heights, MI 48071
U.S.A.
Telephone: +1 248-577-0020
Email: tsmh@us.sika.com
www.sikausa.com

