

# Sikasil<sup>®</sup> 200-MJS

## Semi-Self Leveling Neutral Cure Miter Joint Silicone Sealant

Technical Product Data (typical values) \*Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

|   |               |                              |
|---|---------------|------------------------------|
| Chemical Base   |               | 1-C Silicone                 |
| Color   |               | Multiple                     |
| Cure mechanism  |               | Moisture                     |
| Cure type   |               | Oxime                        |
| Density (uncured)   |               | 8.35 lbs./gal.               |
| VOC   |               | 23g/L (0.19 lb./gal.)        |
| Slump   | (ASTM-D-2202) | > 25 mm                      |
| Skin Time   | (MNA method)  | 35-45 minutes                |
| Tack free time <sup>2</sup>                                       | (ASTM C-679)  | 100 minutes                  |
| Extrusion Rate g/min 1/8" orifice @ 90 psi (ASTM C-1183 modified) |               | 200                          |
| Curing Speed  | (MNA method)  | 1/8 inch / 24 hours          |
| Shrinkage   |               | nil                          |
| Shore A-Hardness  | (ASTM C-661)  | 5                            |
| Tensile Strength, psi (MPa)                                       | (ASTM D-412)  | 115 psi (0.80)               |
| Elongation at break   | (ASTM D-412)  | 400 %                        |
| Bond durability - glass/ aluminum / concrete                      | (ASTM C-793)  | ± 25 %                       |
| Movement Capability, %  | (ASTM C-719)  | ± 25 %                       |
| Application temperature (product)                                 |               | -35° to 140°F (-32 to 40°C)  |
| Service temperature   |               | -80° to 350°F (-62 to 176°C) |
| Weather Resistance  |               | Excellent                    |
| Shelf Life (storage below 90°F (32°C))                            | Cartridge     | 12 months                    |
|   | Drum and Pail | 12 months                    |

- 1) Substrate and Air Temperature must be between 40° - 105°F (5° - 40°C). See "Application" Section for details.  
 2) 77°F (25°C) / 50% r.h

### Description

Sikasil<sup>®</sup> 200-MJS is a general purpose, one-component, semi self-leveling, elastomeric, 100% RTV neutral cure silicone sealant. Meets the requirements of ASTM C-920, Type S, Grade P, Class 25, Use NT, T, M, G, A, O; TT-S-00230C, Type I, Class A; CAN/CGSB-19.13-M87 and California Air Resources Board 2003 requirements for Volatile Organic Compound content.

### Product Benefits

- Semi - Self Leveling
- Fast Curing
- Extremely long service life
- Versatile "Medium" modulus
- Excellent flexibility for dynamic joint movement
- Excellent adhesion, bonds to most substrates without priming

### Areas of Application

- Seam Sealing
- Miter Joints
- End dams in window systems
- Form in place gaskets
- Window manufacturing

Typical Substrates: Glass, metals, tile, fiberglass, plastic, ceramic, concrete and wood

Industry



## Cure Mechanism

Sikasil® 200-MJS cures by reaction with atmospheric moisture. At low temperatures the water content of the air is lower and the curing reaction proceeds more slowly (see diagram below).

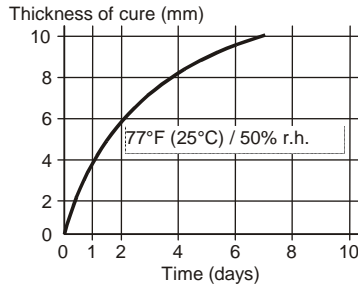


Diagram 1: Curing speed Sikasil® 200-MJS

## Chemical Resistance

Sikasil® 200-MJS is resistant to UV radiation, fresh water, seawater and proprietary aqueous cleaning agents; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; no resistance to organic acids, concentrated mineral acids, caustic solutions and solvents. The above information is offered for general guidance only. Advice on specific applications will be given on request. Contact Technical Service at (tsmh@sika-corp.com).

## Method of Application

### Surface preparation

The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion. Project specific substrates must always be submitted for testing before consideration in high demand applications.

**POROUS SUBSTRATES** – clean by mechanical methods to expose a sound surface free of contamination.

**NON-POROUS SUBSTRATES** – for cleaning non-porous substrates, use two cloth cleaning method using isopropyl alcohol, xylene or an approved, clean, pure non-diluted industrial grade solvent. Allow solvent to evaporate completely prior to sealant application. Strictly follow solvent manufacturer's instructions for safe handling.

## PRIMING

Sikasil® 200-MJS is designed to obtain adhesion without the use of a primer; however, certain substrates may require a primer. Test by applying the sealant

and/or primer sealant combination to confirm results and proposed application methods. Refer to Product Data Sheet for primer Aktivator 205 available at [www.sikausa.com](http://www.sikausa.com) or by contacting Technical Service for additional information and recommendations at (tsmh@sika-corp.com).

## Application

Expansion Joint Apply using professional caulking gun. Do not open product container until preparation work has been completed. Apply sealant using consistent, positive pressure to force sealant into the joint. Tool sealant to create a concave joint shape and ensure maximum adhesion. Dry tooling is recommended.

## Adhesive Joint

Apply using professional caulking gun, dispensing equipment or trowel. Use sufficient quantity of adhesive to one or both substrates to provide designed contact area. Surfaces may be moved up to one hour after application without loss of adhesive strength.

## Removal

Uncured sealant may be removed from tools and equipment with citrus based solvents or xylene, if cleaned before sealant has begun to cure. Strictly follow solvent manufacturer's instructions for use and warning statements. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed with soap and water immediately after use. **DO NOT USE SOLVENTS ON SKIN!**

## Overpainting

Sikasil® 200-MJS cannot be overpainted.

## Limitations

- Do not allow sealant to come in contact with solvent during cure.
- Do not allow sealant to come in contact with curing polyurethane sealants during cure.
- Not intended for immersion.
- Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean. Contact Technical Service for more information.
- Not intended for highway applications.
- Not recommended for absorptive surfaces such as limestone or marble where staining may occur.
- Do not apply to surfaces that will be painted.
- Do not apply to substrates that bleed oil, plasticizers or solvent.

- Do not apply to damp or wet substrates.
- Lower temperature and humidity will extend tack free and cure rates.
- Allow treated wood to age six months before application.
- Brass and copper may be discolored. Test apply prior to application.
- Not intended for structural glazing.
- Test sensitive substrates, such as mirror backings for compatibility before use.

## WARNING: IRRITANT, SENSITIZER.

Contains Methyl ethyl ketoxime (CAS: 96-29-7), Oximino Silane (Trade Secret). Direct eye contact may cause irritation. Eye contact may cause conjunctivitis, corneal damage, or severe chemical burns. May cause skin irritation and sensitization. May be absorbed through the skin. May cause irritation to respiratory system. May cause drowsiness. May be harmful if swallowed. If heated, silicones can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Product contains oximes, possible skin sensitizers.

## HMIS

|                     | Part A | Part B |
|---------------------|--------|--------|
| Health              | 1      | 1      |
| Flammability        | 1      | 1      |
| Reactivity          | 0      | 0      |
| Personal Protection | C      | C      |

## FIRST AID

**Eyes** - Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin** - Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation** - Remove to fresh air. **Ingestion** - Do not induce vomiting. Dilute with water. Contact physician. **In all cases contact a physician immediately if symptoms persist.**

## Further Information

Copies of the following publications are available on our website [www.sikausa.com](http://www.sikausa.com) or by contacting (tsmh@sika-corp.com)

- Material Safety Data Sheet
- Product Data Sheet

**In case of emergency call:**  
**Chemtrec: 800-424-9300**  
**International: 703-527-3887**

Further information available at:  
[www.sikausa.com](http://www.sikausa.com)

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Madison Heights, MI 48071  
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For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety related data. It is highly recommended to read the actual Material Safety Data Sheet before using the product.

- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- KEEP CONTAINER TIGHTLY CLOSED
- FOR PROFESSIONAL USE ONLY

#### Packaging Information

|           |             |
|-----------|-------------|
| Cartridge | 10 oz       |
| Pail      | 4.5 gal     |
| Drum      | 52 gal drum |

#### Value Basis

All technical data stated on this Product Data Sheet are based on the results of laboratory tests only. Actual measured data in the field may vary due to site specific conditions which are not known to Sika and beyond our control.

#### Handling And Storage

Use with adequate ventilation. Product evolves Methyl ethyl ketoxime (MEKO) and methanol when exposed to water or humid air. Provide adequate ventilation to control MEKO within exposure guidelines. Keep container closed and store away from water or moisture or oxidizing materials.

#### Clean Up

Observe personal protective equipment recommendations described in MSDS. Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Wipe up and contain for disposal. Final cleaning may require use of steam, solvents, or detergents.

#### Limited Material Warranty

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 shelf life. User determines suitability of product for intended use and

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Material Safety Data Sheet which are available at [www.sikausa.com](http://www.sikausa.com). Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Material Safety Data Sheet prior to product use.

