

SilTRUST™ SP100 Adhesive

High Strength and Elongation, Adhesive Sealant

Description

SilTRUST SP100 is a one-component, fast cure, non-corrosive silicone adhesive sealant that cures on exposure to atmospheric moisture to form an elastic silicone rubber. SilTRUST SP100 has a thixotropic paste consistency and excellent corrosion-free adhesion to metals, including copper, plastics, glass without the use of primers.

Key Features and Typical Benefits

- Fast room temperature cure, and neutral alkoxy cure type
- High strength and high elongation
- Excellent adhesion after extended aging, and excellent dielectric properties
- Wide operating temperature range from -50 to +200 °C
- Flame retardant : UL94HB recognized (File No.E56745 and E473056)

Typical Physical Properties

(JIS K 6249)

Property	Unit	Value
Uncured Properties (23 °C, 50%RH)		
Available Colors		White, Black
Tack-Free time	min	20
Cured Properties (7 days at 23 °C, 50%RH)		
Appearance		Elastic rubber
Density	g/cm ³	1.42
Hardness (Type A)		34
Tensile Strength	MPa	2.3
Elongation	%	650
Adhesive Strength ⁽¹⁾	MPa	1.9
Thermal Conductivity ⁽²⁾	W/m-K	0.38
Linear Expansion ⁽³⁾	1/K	2.0 x 10 ⁻⁴
Volume Resistivity	MΩ·m	5.0 x 10 ⁶
Dielectric Strength	kV/mm	20
Dielectric Constant (60Hz)		4.0
Dissipation Factor (60Hz)		0.04

Typical physical properties are average data and should not be used as or to develop product specifications.

⁽¹⁾Aluminum lap shear

⁽²⁾In-house test method

⁽³⁾In-house test method

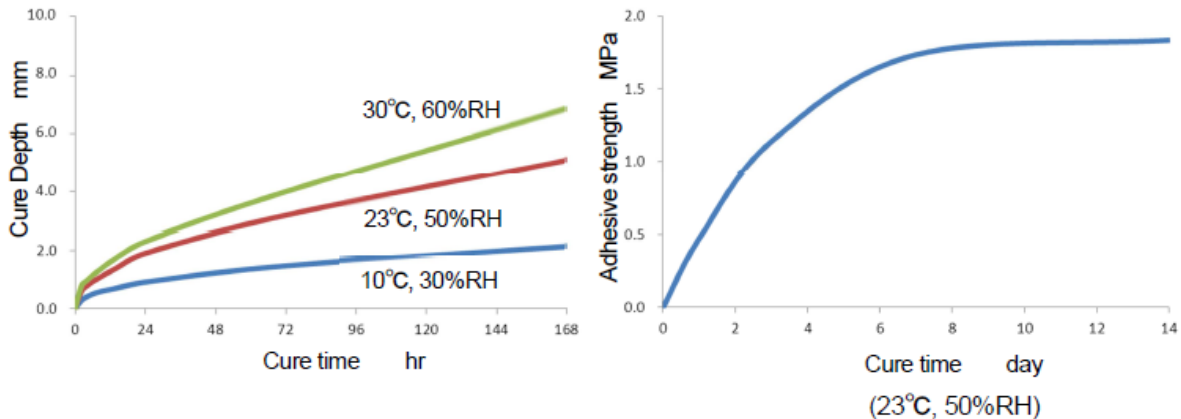
Adhesion Performance

SiiTRUST SP100-W has excellent bonding properties and adheres to many materials without primers.

<u>Materials</u>	<u>SP100-W</u>
Aluminum	O
Glass	O
Stainless Steel	O
Copper	O
Mild Steel	O
Zinc Plate	O
Nickel Plate	O
Acrylic Resin	O
Polyester	O
Epoxy Resin	O
Polycarbonate	O
ABS	O
PBT (Polybutylene terephtharate)	O
PPS (Polyphenylene sulfide)	O
PET (Polyethylene terephtharate)	O
PPE (Polyphenylene ether)	O
Modified PPO	O
Phenolic Resin	O
Nylon-6	O
Nylon-66	O
PVC (Polyvinyl chloride)	O
PE (Polyethylene)	X
PP (Polypropylene)	X

Note: Test results. Actual data may vary.
 O: Adhere completely (Cohesive failure)
 X: Does not adhere

Cure Performance



Note: Test data. Actual results may vary.

General Instructions for Use

- Substrate surface should be thoroughly cleaned with a suitable solvent such as alcohol, xylene, methyl ethyl ketone (MEK) etc.
- Wear eye protection and protective gloves as required while handling.
- Adequate ventilation must be maintained in the work place at all times.
- General adhesive for metals, glass, plastics, etc.
- Certain plastics may require surface treatments such as plasma or liquid primers to achieve best adhesion levels.

Packaging

- 333 ml cartridge in case of 10
- 25 kg pail
- 250 kg drum

Patent Status

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Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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