

Mincey Color Matched High Performance 100% Silicone

PRODUCT DATA SHEET OEM Industrial and Construction Product

Features:

- 100% Silicone Sealant
- High Performance, Excellent Adhesion
- Resistant to UV degradation and Weathering
- Mold and Mildew Resistant
- NSF and UL listed
- Bonds to a Variety of Common Substrates
- Excellent Tensile Strength and Versatility

Additional Benefits:

- Contains No Solvents or Isocyanates which makes Mincey Silicone VOC Compliant
- Easy to Dispense and work with at a Variety of Extreme Temperatures
- Withstands a wide range of high heat and extreme cold
- Fast Tack Free Time

Description:

Mincey High Performance 100% Silicone Sealant Adhesive is a one-part, moisture-curing RTV (room temperature vulcanizing) silicone that cures to a strong, silicone rubber that maintains long-term durability and flexibility. Mincey Silicone contains no solvents or isocyanates which makes it VOC compliant. Due to the formulation, ASI has received numerous accolades for its tensile strength, adhesion, and overall performance. Mincey Silicone is a non-slump sealant and can be applied to vertical or overhead surfaces without flowing or sagging. Because Mincey Silicone is a 100% silicone sealant, it has excellent resistance to weathering including ozone, ultra-violet radiation, freeze-thaw conditions and airborne chemicals. Mincey Silicone can be applied to surface temperatures from -18°C to +50°C (0°F to +120°F) and after curing, withstands constant operating temperatures from -57°C to +205°C (-70°F to 400°F).

Common Applications:

Mincey Silicone is an excellent sealant and/ or adhesive for many Commercial, Industrial, and Construction applications where a long-term, permanently flexible bond or seal is required. Such applications include:

OEM Applications (depending on substrates)

Bathroom Installation/Sealing

HVAC

General Sealing and Waterproofing

General Construction

Aluminum Siding and Metal Siding

General Industrial Applications

Metal Building and Portable Housing Applications

Glass Glazing

Formed in place gaskets

Sheet Metal Work

Food Service Installations and Walk-in Refrigerators

Engine Components

• Telecommunications Including Coaxial Cable

Connectors

• Etc. (Can be used for various applications depending upon substrate)

Common Bonding Substrates:

Mincey Silicone can be used on a variety of substrates that are not listed below. Please inquire or test on those substrates. We have listed some common substrates for your viewing:

Aluminum

Ceramics

Glass

Granite

Marble

Metals

Most Woods

Most Plastics

Porcelain

PVC

Steel

Etc. (substrates may vary depending upon application)

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High Performance 100% Silicone

Directions:

Mincey Silicone is ready to use and requires no mixing or additives. The cure mechanism begins as soon as the sealant comes in contact with the air. At conditions of 25°C (77°F) and 50% relative humidity, the sealant will skin in 10 minutes and fully cure in 24 hours (1/8" bead) and reaches its maximum adhesion in 7 days. Higher humidity accelerates curing. Tooling, if necessary, should be done before skinning takes place. In applications where partial or total confinement of sealant is prevalent, the time required for proper cure is generally lengthened by the degree of confinement.

Surface Preparation:

All surfaces should be clean and dry. If necessary, bonding surfaces can be solvent wiped with naphthas, ketones or chlorinated solvents. Specific solvents would include xylol, toluol and mineral spirits. In case of plastics, determine suitability of solvent prior to use. Allow surface to dry thoroughly before applying sealant. Do not solvent wipe with alcohols or oil-containing solvents such as Varsol. Priming for Mincey Silicone is not normally required for applications to nonporous surfaces. Unprimed adhesion can be easily tested by applying a small trial bead and allowing 7 days for maximum adhesion to occur.

FDA STATUS:

Mincey Silicone is permitted under regulations of the Food and Drug Administration where incidental food contact might be involved. FDA Regulation number is 175.105

MILITARY SPECIFICATIONS:

Mincey Silicone meets the requirements of MIL-46106 Type 1.

CONSTRUCTION SPECIFICATIONS:

Mincey Silicone meets Federal Specifications TT-S-001543A, Class B and TT-S02300, Type 2, Class B.

Safety Precautions:

Mincey Silicone releases small amounts of acetic acid during cure. Adequate ventilation should be provided with extensive use of this sealant. On direct contact, uncured sealant may irritate eyes. Flush eyes well with water and call a physician. Avoid prolonged contact with skin.

CHARACTERISTIC	TEST METHOD	RESULTS
Shore A Hardness	ASTM D2240	23±2
Tensile @ Break	ASTM D412	250±25 psi
Elongation @ Break	ASTM D412	400±25%
Modulus @ 100% Elongation	ASTM D412	70±10 psi
Tear Strength	ASTM 624 (Die B)	30±10 ppi
Adhesion Strength (Peel)	TT-S-001543, 3.5.9	
Glass		24±2 ppi
Aluminum (Primed)		24±2 ppi
Sag, or Slump	TT-S-001543, 3.5.2	Nil
Shrinkage (Weight Loss)	TT-S-001543, 3.5.5	<5%
Extrusion Rate	1/8" orifice @ 50 psi	130±5 gm/min
Service Temperature	----	-18°C to +50°C 0°F to +120°F
Tack Free Time	TT-S-001543, 3.5.6	10 Minutes
Time to Full Cure (1/8" Bead)	----	24 Hours
Joint Movement Capability	4:1 Safety Factor	±25%
Chemical Resistance	List Available	Excellent
Color Retention	----	Excellent
Weatherability	----	Excellent
Electrical Properties @ 72°F (22°C)		
Dissipation Factor	ASTM D150	50 Hz - 0.0010 1 kHz - 0.0008 1 MHz - 0.0002
Dielectric Constant	ASTM D150	50 Hz - 2.7 1 kHz - 2.7 1 MHz - 2.7
Volume Resistivity, Ω·cm	ASTM D257	6 x 10 ¹⁴
Surface Resistivity, Ω	ASTM D257	1 x 10 ¹⁶
Dielectric Strength, KV/mm	ASTM D149	25