

SILPAK RTV-4500

RTV Adhesive & Sealant



RTV-4500 RTV CLEAR Adhesive/Sealants are one component, ready to use, non-slumping, non-sagging silicone materials, which cure to a tough, rubbery solid when exposed to atmospheric moisture (room temperature vulcanizing). The RTV-4500 paste consistency products are general purpose adhesive/sealants characterized by the following advantages:

- Work Time: 10 Min, Tack Free: 17-20 Min, Normal Cure: 24 Hours
- Thixotropic paste consistency - products will flow only with external pressure.
- Adhesion Properties - will bond to many surfaces without the use of primers.
- Chemical Resistance - provides reliability and extended service life in adverse environments.
- Low temperature flexibility - properties retained at temperatures as low as -62F (-52C).
- Meets MIL-A-46106A, Type I.
- One-component product - no mixing or catalyzing required.
- Can be applied to a vertical, horizontal and overhead surface without sagging, slumping or running off.
- Weather-ability and ozone resistance - excellent resistance to weathering, vibration, moisture and ozone.
- Resistance to high temperatures - will retain electrical and physical properties for extended periods at temperatures to 350F (176C) and for intermittent exposure to 400F (204C).
- Electrical insulation properties - can be used for electrical insulation.
- FDA CFR 177.2600- may be used on incidental food contact surfaces.

Applications

RTV-4500 adhesive/sealants adhere to many clean surfaces without the use of primers. These surfaces include glass, ceramic and many metals, some rigid plastics and silicone rubber. RTV adhesive/sealants will also produce fair bonds to some flexible plastics that do not contain migratory plasticizers, and too many organic rubber materials. For any of the applications above, an evaluation should be made to determine bond strength.

Typical Properties

Property	Value
Specific Gravity:	1.04
Tensile Strength (psi):	300
Durometer, Shore A:	26
Elongation, %:	500
Dielectric Strength, volts/mil(kv/mm):	500 (20)
Dielectric Constant, kHz:	2.7 @ 60
Dissipation Factor, kHz:	0.015
Resistivity, ohms/cm:	1x10 ⁻¹⁵
Volatile Organic Content:	30 grams/liter
Shelf Life:	24 months
Work Time, min:	10
Tack Free, min:	17-20
Normal Cure, hr	24

Values listed above are typical and not intended for use in specifications.

Limitations

RTV-4500 adhesive sealants are not recommended for calcareous surfaces or for use with materials that bleed oil or solvents. RTV adhesive sealants are not paintable and are not recommended as adhesives for mirrors.

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