

## RTV Adhesives

C.L. Smith Industrial Company offers a variety of RTV silicones for all your adhesive and sealing needs. Our specially formulated materials can be used in a wide variety of applications from environments that are cold and wet to others that are hot and dry.

All products are formulated and well suited for installing abrasion resistant materials but are also excellent for other areas of your operation that may need attention.

**CLS-111 (White)**, **CLS-222 (Clear)** and **CLS-444 (Red Hi-Temp)** are single component 100% silicone adhesive sealants which cure to a tough, rubbery solid at room temperature on exposure to water vapor in the air (acetoxycure). These RTV's adhere to clean substrates such as ceramic, metal, glass, most woods, painted surfaces, can be applied overhead without sagging and retain permanent flexibility with excellent weatherability. Primarily used as our workhorse RTV's for bonding wear materials but also great for:

- Formed in place gaskets
- Sealing windows and high efficiency furnaces
- Adheres to metal, glass, most woods and painted surfaces
- CLS-444 is good for encapsulating heating elements in appliances, bag filters on smokestacks and manifolds.
- Conforms to MIL Spec MIL-A-46106A, Amend 2 Type 1 and FDA Regulation No. 21 CFR 177.2600

**CLS-555** is another RTV option that has a neutral/oxime/non-acid based cure (low odor). Bonds a wide variety of materials, is VOC compliant and meets Green Building Standards. Primarily used for bonding wear materials but also offers the following benefits:

- All weather performance
- Non-corrosive
- Other industrial applications include;
  - Sealing openings and exterior surfaces
  - Sanitary seals
  - Industrial gaskets
  - Plumbing, roofing and HVAC
- Available in multiple colors

All products are offered in convenient 10.3-ounce tubes, (1) gallon and (5) gallon pails



**EVALUATE.ENGINEER.EXECUTE**  
**Experts in custom wear solutions for**  
**over 40 years**



Physical Properties	CLS-111 / CLS-222	CLS-444	CLS-555
Color	White / Clear	Red	White
Specific Gravity	1.04	1.04	1.04
Durometer, Shore A	26	32	15
Extrusion Rate	330 g/min	350 gms/min	500 gms/min
Skin Over / Tack Over Time	10 - 20 minutes	6-15 minutes	12-25 minutes
Cure Time	24 Hours	24 Hours	24 Hours
Tensile Strength	363 psi	350 psi	190 psi
Elongation	640%	640%	650%
Peel Strength: Aluminum (Steel)	18 (20) piw	18 (20) piw	n/a
Dielectric Strength kv/mm (v/mil)	20 (500)	20 (500)	20 (500)
Dielectric Constant @ HZ	2.9 @ 60	2.9 @ 60	2.7 @ 96
Service Temperature	-62° F to 400° F	-85° F to 500° F	-62° F to 400° F
Intermittent Temperature	425° F	600° F	450° F
Shelf Life (factory sealed containers)	24 Months	24 Months	18 Months
Conforms to Specifications	FDA CFR.177.2600, USDA, NSF51, MIL-A-46106, ASTM C920, TT-S-111543A, TT-S-00230C (COM-NBS), UL File No. E163852 (E40195) (Type 37132, Amend 2, Type 1)	FDA CFR.177.2600, USDA, NSF51, MIL-A-46106, ASTM C920, TT-S-111543A, TT-S-00230C (COM-NBS), UL File No. E163852 (E40195) (Type 37132, Amend 2, Type 1)	ASTM C920 Type S, NS, Class 50, TT-S-00230C, TT-S-01543A, MIL-A-46106A, AAMA 808.3, 805.2, 803.3 (TYPE I), 802.3 (TYPE II), UL Recognized Component

Please call C.L. Smith Industrial Company and speak with your Sales Representative for your specific adhesive needs.

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