

1- Part Industrial / Construction

HIGH STRENGTH 1-PART INDUSTRIAL/CONSTRUCTION GRADE SILICONE SEALANT

Chem-Set™ (RTV4500) is a one component room temperature vulcanizing RTV acetoxy cure silicone sealant and adhesive that has been chemically formulated for high strength adhesion. When fully cured, this unique VOC compliant formula offers UV stability and excellent adhesion to form waterproof and airtight bonds to metal, steel, tile, fiberglass, ceramic, glass, aluminum, painted surfaces, wood, plywood, marble, plus many other common substrates. This product is specifically formulated to offer all weather performance to meets today's Green Building Standards.

FEATURES & BENEFITS

- High Strength
- Excellent Weatherability
- UV Stable
- Non-Yellowing
- VOC Compliant
- Non-Flammable
- Waterproof
- Excellent Adhesion
- Non-Shrinking

CONSTRUCTION & INDUSTRIAL APPLICATIONS

| | |
|-------------------|----------------------|
| Sealing & Glazing | Precast Concrete |
| HVAC/R | Transportation Seals |
| Plumbing | Marine Cabins |
| Roofing | Appliance Trim |
| Kitchen And Bath | Interior/Exterior |
| Countertops | Above Grade |
| Sanitary Seals | |



MEETS SPECIFICATIONS: ASTM C920 Type S, NS, Class 25; TT-S-00230C, TT-S-01543A, MIL-A-46106A, FDA CFR 177.2600, USDA Approved, NSF 51, UL Recognized Component.

AVAILABLE COLORS: Clear, White, Black, Aluminum, Almond, Bronze, Gray, Trans White (custom colors available upon request)

PHYSICAL PROPERTIES

TEST METHOD

| | | |
|--------------------------------------|-----------------|-------------------|
| Cure System | Acetoxy | |
| Movement Capability, % | ±25% | ASTM C-719 |
| Modulus | Medium | ASTM D-412 |
| Physical Properties (Cured) | Rubber | |
| Specific Gravity | 1.04 | |
| Extrusion Rate, g/min. | 370 | ASTM C-1183 |
| 1/8" orifice @ 50 psi | | Modified |
| Temperature Range | -62°F to 350°F | |
| Intermittent Temperature Range | 400°F | |
| Accelerated Weathering (10,000 hrs.) | No Change | QUV Weatherometer |
| Skin Over Time (min) | 10* | MNA Method |
| Tack Over Time (min) | 17* | ASTM C-679 |
| Cure Rate | 1/8" per 24hrs* | MNA Method |
| Tensile Strength (psi) | 310 | ASTM D-412 |
| Elongation % | 500 | ASTM D-412 |
| Durometer Shore A | 26 | ASTM C-661 |
| Dielectric Strength kv/mm (v/mil) | 20 (500) | |
| Dielectric Constant at 100 Hz | 2.7 @ 60 | |
| Shelf Life (months) | 24 | |
| Volatile Organic Content | 30 gr./litre | |

*All properties derived from lab conditions (77°F at 50% relative humidity)

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.