

## 1- Part Industrial / Construction

### HIGH STRENGTH 1-PART INDUSTRIAL/CONSTRUCTION GRADE SILICONE SEALANT

**Chem-Set™ (RTV 4500)** is a one-component room temperature vulcanizing RTV acetoxy cure extended 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	



Easy to apply, offers excellent adhesion to a variety of nonporous substrates, such as glass, glazed ceramic tiles and aluminum; nonslump.

**MEETS SPECIFICATIONS:** UL Recognized Component.

**AVAILABLE COLORS:** Aluminum, Black, Clear, White, Gray, Bronze and Red.

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.