

20-1615

WATER CLEAR SILICONE POTTING COMPOUND

DESCRIPTION:

20-1615 is a two component, room temperature curing silicone rubber compound. This silicone system is clear, odorless, and low in viscosity. 20-1615 is an excellent choice for potting electronic assemblies that require shock and vibration resistance. It also protects assemblies from moisture, ozone, chemicals and other environmental hazards.

FEATURES:

- Low viscosity
- Contains no solvents
- Operating temperature -65 to +205°C
- No exotherm during cure
- Hydrolytic stability
- Easy 10:1 Ratio

TYPICAL SPECIFICATIONS:

Viscosity, 25°C, cps, mixed	6,000
Mix Ratio, (Resin:Catalyst)	
By Weight	10:1
Color	Water clear
Hardness, Shore A	40
Operating Temperature Range, °C	-65 to +205
Pot Life, 25°C	4 hours
Specific gravity, 25°C	1.03
Tensile strength, psi	950
Elongation, %	120
Shrinkage, %	0.2
Dielectric Constant, 1000 Hz	2.7
Dielectric Strength, V/mil	500
Dissipation Factor, 1000 Hz	.0004
Volume Resistivity, ohm-cm	1.2×10^{15}
Refractive index	1.4
Thermal conductivity, W/m-K	0.0173
Coefficient of Thermal Expansion, in/in °F	18.3×10^{-5}

PREPARATION OF SURFACES:

Silicone rubber compounds will cure in contact with most clean, dry surfaces. Certain materials, such as butyl and chlorinated rubber, sulfur, amines and certain metal soap-cured silicone compounds can cause cure inhibition.

For improved adhesion contact Epoxies, Etc. Technical Department for the recommendation of a primer.

INSTRUCTIONS FOR USE:

1. By weight mix 100 parts 20-1615A Resin to 10 parts 20-1615B Catalyst.
2. Mix thoroughly and uniformly. Be careful not to whip excess air into mixture.
3. Degas if necessary to remove air from mixture. Select a mixing container 4-5 times larger than the volume of silicone material. Pull a vacuum of about 25mm (29 in.) of mercury. The silicone material will rise and then recede to the original level as the air bubbles break.
4. Pour and follow one of the cure schedules:

a) 25°C	24-48 hours
b) 65°C	4 hours
c) 100°C	1 hour
d) 125°C	45 minutes
e) 150°C	10-15 minutes

STORAGE, HANDLING & SAFETY:

Store both components at 25 °C in original containers. Store away from excessive heat and humidity. The expected shelf life is 12 months in original containers.

Please read the Safety Data Sheet before using this or any other chemical.

AVAILABILITY:

20-1615 is available in 2oz, 8oz, pint, quart, and gallon containers.

IMPORTANT:

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