

INNERBOND C-811 MIRROR SEALANT

Innerbond C-811 Mirror Sealant is a non-corrosive, one-component, self-priming industrial RTV with superior adhesion characteristics to an extremely wide variety of substrates. This tough silicone adhesive is specifically designed for mirrors, but will bond to any natural or synthetic fibers, glass, metal, ceramics, wood, silicone resins, other silicone rubber, painted surfaces and even plastics. Complies with MIL-A-46146a, Type I corrosion standards.

ADVANTAGES

Innerbond C-811 Mirror Sealant offers the following features:

- Ready-to-use
- Excellent primerless adhesion to most metal and plastic substrates (See Table I)
- Non-corrosive
- Neutral-cure system; no acetic acid odor
- Flexible from -58° to 356°F (-50° to 180° C) in cured state
- Excellent weatherability

APPLYING INNERBOND C-811

Innerbond C-811 should be applied in a continuous operation to clean, dry surfaces. In order to prepare surfaces for maximum adhesion, they should be cleaned with suitable solvents such as MEK(methyl ethyl ketone), naphtha, or 1,1,1,-trichloroethane to remove all grease, dirt and oil. All solvents must be wiped from surfaces before sealant is applied. For best results, apply Innerbond C-811 at a temperature no lower than 50° F. The product should be tooled immediately after application and before a skin forms, using light pressure to spread it against the substrate. Uncured sealant may be cleaned from non-porous surfaces and tools using a solvent such as xylol. On porous surfaces, allow the sealants to cure and remove by abrasion.

STORAGE

In its original, unopened container, Innerbond C-811 Mirror Sealant may be kept for 12 months at a temperature below 77°F (25° C). Keep unused portion tightly covered to avoid contact with moisture.

TYPICAL PROPERTIES

UNCURED STATE			
Color	Clear	Flow, sag or slump	None
Specific Gravity	1.03	Extrusion rate (1/8" orifice, 90 psi), g/min	205
CURED CHARACTERISTICS (exposed to air 77° F (25° C), 65% RH)			
Working time, minutes	7	Skin-over time, minutes	7
Tack-free time, minutes	60	Cure time (1/8" thickness), hours	24
PHYSICAL PROPERTIES (cured 7 days at 77° F (25° C), 65% RH)			
Durometer hardness, Shore A, points	20	Tensile strength, psi	180
<u>Elongation, %</u>	595	Temperature reaction, °C	-50 to 180
Dielectric strength, kv/mm	16	Dielectric constant at 1 MHz	3.3
Dissipation factor at 1 MHz	6.10 ₁₃	Volume Resistivity, ohm-cm	1.10

PACKAGING

Innerbond C-811 Mirror Sealant is available in 10.3 oz cartridges

HEALTH AND SAFETY

Avoid prolonged or repeated contact with skin. Should contact with skin occur, wash with soap and water. Should contact with eyes occur, flush immediately with water and consult a physician.

LIMITATIONS

- Not for use on continuously immersed substrates
- Some plastics may become discolored; test small area before use
- Sensitive metals such as copper and brass, will discolor when tested per MIL-A-46146A, Type I.
- Due to variation in substrate surfaces, test adhesion before use.

TABLE I – ADHESION TO VARIOUS SUBSTRATES

METALS			
Aluminum (rough or anodized)	good	Brass	good
Stainless steel	good	Copper	good
Galvanized steel	good	Zinc	good
Cold rolled steel	good		
PLASTICS/RUBBER			
Polycarbonate sheet	good	Rigid PVC	good
Rigid polystyrene	good	Polyester fiber glass	Good
MISCELLANEOUS			
Wood (pine)	fair	Cement	fair

NOTE

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Thorough testing of our product on any proposed use should be conducted prior to each application. It is the responsibility of the consumer to evaluate the performance of our product in each given application. Likewise, if the manner in which our products are used requires governmental approval or clearance, it is the user's responsibility to obtain it.

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