



# Extreme 2115

## HIGH STRENGTH LOW VISCOSITY EPOXY

### Product Description

**Extreme 2115** is a clear, low viscosity epoxy formulation used in the fabrication of lasers. It is capable of withstanding 30 seconds of 60 watt direct laser energy. The low cure shrinkage (using a room temperature cure) makes **Extreme 2115** an excellent choice for bonding optical components where alignment accuracy is essential. This high strength system is also used for laminating glass and rigid plastics or bonding metals and ceramics. **Extreme 2115** offers superior resistance to mechanical shock and temperature cycling. It has been used in cycling applications down to 4!K. It is also resistant to water, weather, ozone, most petroleum products, mild acids and alkalis and many other chemicals .

### Why You Should Select this Adhesive

- Excellent Chemical Resistance
- Durable Bonds
- Passes NASA Outgassing Requirements
- Good Electrical Insulating Properties

### Instructions for Use

Combine pre-weighed resin and activator and mix thoroughly. Pot life is 2 hours at room temperature.

Time to full cure:

Cured @ 25°C                    24 hours  
Cured @ 65°C                    1-2 hours

Contact an **EXTREME ADHESIVES®** Adhesive Applications Specialist for further recommendations on adhesive selection.

### Physical Properties

#### Typical Uncured Properties (liquid)

Applies to both the adhesive and activator sides

Viscosity	250 cps mixed
Specific Gravity	1.220
Color	Clear
Index of Refraction	1.55
Mix Ratio (by weight)	100:30
Thixotropic Index	MEK, Acetone

#### Typical Cured Properties (solid)

Shore D Hardness	78
Thermal Service Range	-70°C to 100°C
Lap Shear on AL	3800 psi
Glass Transition (Tg)	55
Dielectric Constant 1KHz@25°	4.80
Dissipation Factor 1KHz@25°	0.010
Volume Resistivity, ohm-cm @25°C	9.00E+08

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