

### PRODUCT DESCRIPTION

**AEGIS® Repair Resins** are designed for rapid bonding and repair of glass. Resin materials contain no nonreactive solvents, ensuring that any solvents participate in the curing reaction. When cured with a UV lamp, resins deliver optimum speed and performance. Their ability to cure in seconds enables faster processing, greater output, and lower processing costs. **UV lamps from AEGIS** offer the optimum balance of UV and visible light for the fastest, deepest cures.






### REPAIR RESIN PROPERTIES

Repair Resin Product Name	Extreme II	Crack Filler	Pit Filler
Chemical Class	Acrylated Urethane	Acrylated Urethane	Acrylated Urethane
Nominal Viscosity, cP (20 rpm)	17	34	3,500
Refractive Index, cured (20° C)	1.52	1.51	1.50
Tensile Strength at Break, MPa (psi)	29 (4,200)	29 (4,200)	33 (4,800)
Durometer Hardness	D75	D80	D80
Soluble in	Organic Solvents	Organic Solvents	Organic Solvents
Linear Shrinkage on Cure, %	0.8	0.6	0.4
Shelf Life, in months	30 months	18 months	30 months
Recommended Temperature Ranges (for use)	40° – 60° F (4.5° – 15.5° C)	60° – 80° F (15.5° – 26.5° C)	40° – 100° F (4.5° – 38° C)

These products are in full compliance with RoHS directives 2015/863/EU.

- AEGIS Extreme II and AEGIS Crack Filler resins are part of AEGIS windshield repair systems and are included in most **AEGIS windshield repair kits**. The resins are also sold separately in various quantities.
- AEGIS Pit Filler has its own **kit**. The resin is also sold separately.

### APPLICATION

REPAIR RESIN RECOMMENDED USES			
GLASS BREAK TYPES	Extreme II	Crack Filler	Pit Filler
 Bull's Eye Break	✗	✓	Pit Filler is only intended for detail use after a glass break has been repaired using Crack Filler or Extreme II.
 Star Break	✓*	✓	
 Combination Break	✓*	✓	
 Short Crack <6" [<15 cm]	✓	✓	
 Long Crack >6" [>15 cm]	✓	✗	

\* Preferred when applied in cool temperatures (see temperature range in Repair Resin Properties table)

- Select the resin recommended for the glass break types listed in the APPLICATION table.
- Read, understand and follow directions for resin application as specified in the instructions for the appropriate [AEGIS windshield repair kit](#).
- Use resin within its shelf life (see Repair Resin Properties table).
- Minimize exposure of resin to ambient and artificial light before applying it, because resin will cure upon exposure to both UV and visible light. Dispensing components, such as a needle or fluid line, should block all light completely.
- Clean repair area of any grease, mold, and other contaminants before applying resin.

## CURING

LAMP SPECIFICATIONS			
UV Lamp Model	LMP2001	LMP2007	LMP2008
Recommended UVA <sup>1</sup>	365 nm	365 nm	365 nm
Curing time, in minutes	4-7	1-3	1-3

<sup>1</sup> UVA range of 320 nm – 395 nm is acceptable.

- Curing time is affected by many variables, including lamp intensity, distance between light source and repair area, required depth of cure, bond gap, and percent light transmission of the substrate.
- Read, understand and follow directions for resin curing as specified in the instructions for the appropriate [AEGIS windshield repair kit](#).
- Organic solvents may be used to remove uncured resin from dispensing components. Cured resin may require mechanical methods to remove.

## HEALTH & SAFETY

- These products are intended for industrial use only. Keep products out of the reach of children. Wear impervious gloves and eye protection and follow trade association guidelines when using these products.
- Each of these resins contains a small quantity of acrylic acid, which is a hazardous material. Before using a resin, read its [Safety Data Sheet](#). Avoid breathing its vapors. Avoid contact with skin, eyes, and clothing. Repeated or continuous contact with uncured resin may cause irritation. Use soap and water to remove any resin that contacts skin. Do not use organic solvents to remove resin from skin or eyes.

## STORAGE & SHELF LIFE

- Store resin in a dark place. Keep covered, if needed, to prevent prolonged exposure to ambient or artificial light, which will polymerize resin.
- Store resin in its original, unopened container at 10° – 35° C (50° – 90° F), to preserve its shelf life (see Repair Resin Properties table).