



ENGINEERING ADHESIVES & SEALANTS

MEGACRYL™ SA-143 is a two-part methyl methacrylate adhesive designed for structural bonding of engineered thermoplastics, metal and composite assemblies. Combined at a 10:1 ratio, thixotropic non-sagging formulation. This adhesive combines high strength and durability with the ability to adhere to a wide range of substrates with a minimum of surface preparation. Used in Automotive, Marine, Electronics, Plastic Fabrication, Signs, Metal Fabrications etc.

Monomer Form (Liquid)	
Base Resin	Modified Acrylic
Colour	Milky White (A) Off White (B)
Viscosity (Adhesive - Part A)	130,000 mPa·s
Viscosity (Hardener - Part B)	50,000 mPa·s
Flash Point	Approx. 10°C (51F)
Shelf Life @ 20°C	12 months unopened
Toxicity	Low to moderate (see SDS)
Mix Ratio	10:1
Working Time	8-14 minutes
Fixture Time	20-30 minutes
Full Cure	24 hours
RoHS Compliant?	Yes

Polymer Form (Solid)	
Tensile Strength acc. to ASTM D638	24-28 MPa (3480 to 4061psi)
Over Lap Shear Strength acc. to ASTM D1002	
<ul style="list-style-type: none"> Carbon Steel 	19 to 24 MPa (2800 to 3500 psi)
<ul style="list-style-type: none"> Aluminium 	>21.4 MPa (>3300 psi)
Hardness acc. to ASTM D2240	45 Shore D
Gap Fill	6.35mm (0.250")
Service Temperature	-40°C / +121°C
Elongation to Break	80 - 120%

Features and Benefits

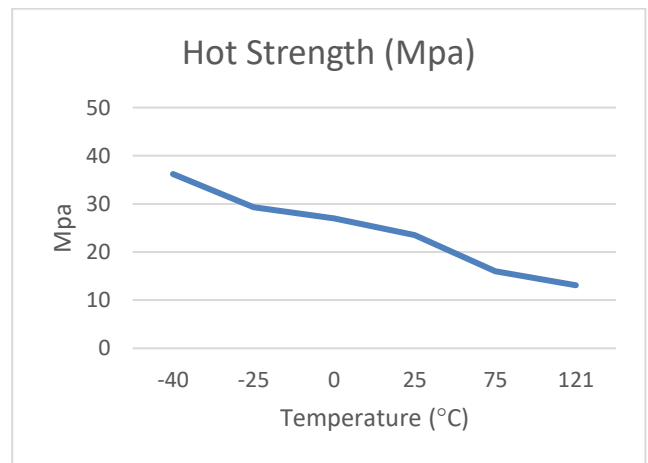
- No Surface Preparation Required.
- Excellent Adhesion Properties.
- Excellent Strength to Metals, E-Coat, Thermoplastics, Thermosets and Engineering Plastics.
- Resistance to Wide Range of Chemicals.
- High Impact Resistance.
- 100% Reactive.
- Room Temperature Cure.
- Use on as received metal surfaces including aluminium, stainless and plated steels and forms tough, high strength bonds.

**MEGACRYL™ SA-143
STRUCTURAL ADHESIVE
TECHNICAL DATA SHEET**



Part # SA143490

Temperature Resistance



Lap Shear Strength ASTM D 1002
304 Steel / 304 Steel

General Instructions

MEGACRYL™ SA-143 is a 10:1 meter-mix product for ease of application. Because of its excellent adhesion properties it can be used on as received metal surfaces including aluminium, stainless and plated steels and forms tough, high strength bonds without surface preparation.

Curing

Curing commences upon mixing of Part A and Part B. Working time is the approximate time after mixing that adhesive remains liquid and usable. Fixture time is the time after which parts may be moved and/or unclamped. 80% of final strength develops within 1 hour.

Recommended For

METALS

- Aluminium
- Steel
- Stainless
- E-Coated Metal

THERMOSETS

- Fibreglass
- Phenolic
- Gel Coat
- Epoxy
- RIM Urethane
- Polyurethane
- Liquid Moulding Resin

THERMOPLASTICS

- Acrylic
- ABS
- Polycarbonate
- Nylon/PA
- Vinyl
- PVC
- Peek
- PBT Blends
- PET Blends

Storage

Product should be stored in a cool dry place out of direct sunlight. Shelf life is dependent on the product being stored properly at temperatures between 15 to 25°C. The shelf life is twelve (12) months in original sealed containers. Shelf life can be extended by refrigeration.

Do NOT freeze.

Safety and Disposal

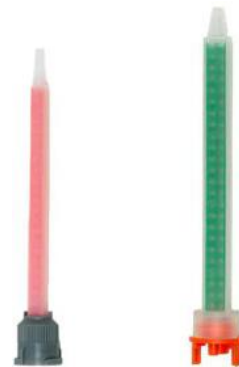
For safe handling information on this product, consult **safety Data Sheet (SDS)**. Disposal should be in accordance with local and/or national regulations.

Handling and Clean-Up

Clean up is best before the adhesive has cured. Cleaners containing NMP (N-methyl pyrrolidone) or Citrus terpene provide the best results. On cured adhesive repeat use may be required.

Compatible Components

Static Mixing Nozzles	Part Number
50ml 10:1 Static Mixer	MXB050-10
490ml 10:1 Static Mixer	MXB490-10



MXB050-10
(50ml)

MXB490-10
(490ml)

Dispensing Guns	Part Number
50ml 10:1 Dispenser	DG050-10
490ml 10:1 Dispenser	DG490-10



Part # DG050-10
(50ml)



Part # DG490-10
(490ml)

Packaging

Size	Part Number
490ml Dual Cartridge	SA55320

Note

The data contained herein is offered in good faith based upon information that is believed to be accurate and reliable, but no warranty, express or implied, regarding the accuracy of such information is made. The conditions or methods of handling, storage, use and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. It is the responsibility of the user to determine the products suitability for their intended purpose.

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