

Pliogrip™

acrylic adhesives

Pliogrip structural acrylic adhesives solve the most difficult challenges in bonding GRP composites in marine, wind, transportation and general assembly applications. Acrylic adhesives provide significant performance advantages with their ability to adhere to a wide range of thermoplastics, metals and composite materials with just little or no surface preparation.

Key benefits:

- Excellent adhesion to many substrates with little to no surface preparation
- Less boil during cure compared to competitive acrylic adhesives
- Longest open time in the industry
- Fast room temperature cure; low-cost tooling
- High body and gap filling

Marine applications:

- Stinger bonding, deck-to-hull, liner, bulkhead
- Bonds FRP, gelcoats and other materials used in marine applications

Pliogrip 1000 acrylic technology

Pliogrip 1000 is a two-component, toughened, structural acrylic adhesive designed to be applied rapidly and at large bead diameters without sagging, including on vertical surfaces. The system is intended for bonding composites in the marine, transportation, and general assembly markets.

The Pliogrip 1000 acrylic adhesive system has three activators available to achieve the desired cure rate. Maximum adhesive performance is obtained when the two components are metered, mixed, and dispensed with application equipment that delivers a homogenous, on-ratio bead.

Pliogrip Adhesive	Pliogrip Activator	Mix Ratio (by vol)	Open Time 74°F (min)	Fixture Time 74°F (min)	Tensile Strength (psi)	Young's Modulus (psi)	Elongation (%)	Packaging
1000	1040	10:1	40	80	2900	51000	110	pails, drums
	1060	10:1	60	120				
	1080	10:1	80	160				

Pliogrip 1100 Acrylic Technology

Pliogrip 1100 is a two-component, toughened, structural acrylic adhesive system designed to be applied rapidly and at large bead diameters without sagging, including on vertical surfaces. This adhesive system is designed for long open assembly times in higher temperature climates, up to 60 minutes at 95°F. The system is intended for bonding composites in the marine, wind, transportation, and general assembly markets.

Maximum adhesive performance is obtained when the two components are metered, mixed, and dispensed with application equipment that delivers a homogenous, on-ratio bead.

Pliogrip Adhesive	Pliogrip Activator	Mix Ratio (by vol)	Open Time 74°F (min)	Fixture Time 74°F (min)	Tensile Strength (psi)	Young's Modulus (psi)	Elongation (%)	Packaging
1100	1040	10:1	80	160	2900	51000	110	pails, drums
	1060	10:1	130	260				
	1080	10:1	150	300				

Pliogrip 1000c Acrylic Technology

Pliogrip 1000c series is a 10:1 ratio, two-component, toughened, structural adhesive designed for use in bonding composites, plastics, and bare metals in marine, transportation, infrastructure, and other composite applications. Bondable substrates include, but are not limited to, open mold, FRP, RTM, infusion, gelcoat, ABS, polycarbonate, aluminum, stainless steel, and cold-rolled steel.

In general, structural bonds may be achieved with no sanding and minimal surface preparation. Pliogrip 1000c series adhesives are room temperature cure and do not require heat or post-bake. They are available in 490 ml side-by-side cartridges, 5 gallon pails, and 55 gallon drums.

Pliogrip Adhesive	Mix Ratio (by vol)	Open Time 74°F (min)	Fixture Time 74°F (min)	Tensile Strength (psi)	Young's Modulus (psi)	Elongation (%)	Packaging
1005c (1003LV/1202)	10:1	4 - 6	8 - 12	2900	58000	60 - 80	pails, drums, cartridges
1010c (1002LV/1202)	10:1	8 - 12	16 - 24				
1020c (1002LV/1201)	10:1	16 - 24	45 - 50				
1035c (1001LV/1201)	10:1	30 - 40	75 - 85				

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