SCIGRIP® / ARJAY
THE FUTURE OF PERFORMANCE BONDING™

Celebrating Over 40 Years of Marine Innovation

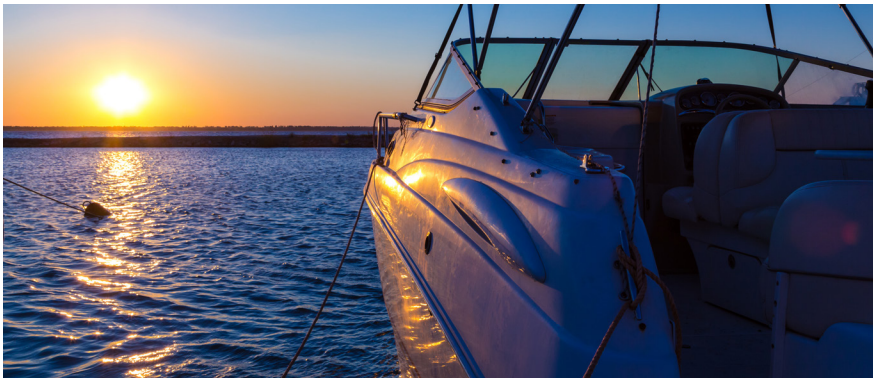
TECHNICAL DATA SHEET

SG100 SERIES

METHACRYLATE ADHESIVES

SG100: Bring On The Sun

SG100's Enhanced UV Resistance and Strong Bond Means Performance *and* Protection can Start at the Top



SCIGRIP® / ARJAY's SG100 Adhesive provides the ultraviolet and impact protection you need for topside applications, like deck exteriors and hardtops. But this performance story doesn't stop there. SG100 also provides the strength and flexibility needed for critical bonds too, like deck to hull. Plus, it has the impact resistance required for items like hatches, doors and other items built in 2-part molds. We created formulas for both 15 and 40 minute working times, so it's designed to work the way you do, regardless of application.

Performance Benefits

- *UV stabilized, bright white color for color critical applications*
- *Excellent choice for bonding FRP composites, gel coated surfaces and thermoplastics with little or no surface preparation*
- *Outstanding fatigue, impact and shock load resistance*
- *Excellent environmental and chemical resistance*
- *Bonds range of substrates: Acrylic, PVC, ABS, Thermoset Composites (Vinyl Ester, Polyester, Gelcoats, and Epoxy), Primed Metals, Coated Metals, and other Thermoplastics*

Additional Resources

- Try SG230HV for higher viscosity and more working time options

NOTES:
1. Polyolefins, thermoplastic polyesters, fluorocarbon plastics and other low surface energy plastics are generally not bondable.
2. Prepare metal for bonding by removing all dust, loose scale, rust, and other surface residue including oil and grease. Use of MP100 Metal Primer is a necessity and strongly recommended for stainless steel and aluminum bonding. Heavy grinding or sanding may interfere with the chemical action of MP100 and is not recommended, especially with aluminum and stainless steel. For maximum bond strength on steel, abrade the mating surfaces prior to bonding. See notes a, b and c on reverse side. Value will depend on strength and stiffness of substrate.
3. Tensile modulus as measured in the linear portion of the stress strain curve.
4. Lap shear strength of aluminum to aluminum bond pretreated with MP100 Metal Primer and based on ASTM D1002 method.

RECOMMENDED FOR BONDING

Composites	Metals[2]	Thermoplastics[1]
Epoxy	Aluminum	ABS
Polyester/DCPD	Carbon Steel	Acrylics
Vinyl Ester	Stainless Steel	PVC/CPVC
Gelcoats	Coated Metals	Styrenics

WORKING PROPERTIES

Cartridge	Adhesive	Activator	Working Time	Fixture Time
SG100-15	SG115A	SG115B	12-18 min	30-45 min
SG100-40	SG140A	SG115B	25-45 min	80-100 min

Time to reach 70% of ultimate strength in lap shear @75°F (24°C)[4]

TYPICAL PHYSICAL PROPERTIES *@75°F (24°C)*

SG100 SERIES *Uncured*	Part A *Adhesive*	Part B *Activator*	A+B *Mix*
Color	Off White	White	White
Mix ratio/volume	10	1	-
Mix ratio/weight	6.42	1	-
Density, g/cc	0.95	1.48	1.00
Density, lb/gallon	7.90	12.35	8.33
Viscosity, cps	150,000-220,000	70,000-180,000	-

TYPICAL CURED PROPERTIES *@75°F (24°C)*

Tensile Strength PSI (MPa)	2,500-2,900 (17.2-20)
Maximum Tensile Elongation	15-30%
Tensile Modulus[3] PSI (MPa)	90,000-110,000 (620-758)
Lap Shear Strength[4] PSI (MPa)	2,000-2,400 (14-16)
Service Temperatures °F (°C)	-40 to 180 (-40 to 82)

PACKAGING & AVAILABILITY

Cartridges *490 ML*	Pails *5 Gal./19 L*	Drums *55 Gal./ 189 L*
		
30191 SG100-15 30194 SG100-40	30189 SG115A 30190 SG115B-W 30193 SG140A	30188 SG115A 30192 SG140A

SCIGRIP Americas, 600 Ellis Road, Durham, NC 27703 • Toll Free: 1-877-477-4583 • Fax: 919-598-2439 scigrip.com