



Strong, lightweight structural
adhesives for whatever you're
putting together...

SG2000: Durable, Long-Lasting Bonds for Structural Projects Requiring Extended Working Time

- Designed with enhanced gap-filling properties to address the specific requirements of the marine, transportation and construction industries.



SCIGRIP® SG2000 is a two-component 1:1 ratio methacrylate adhesive, designed for bonding composite parts with minimal surface preparation. Ideal for large structural projects, it provides extended working times and can fill deep gaps up to 1.5 inches (39mm). SG2000 enhances bonding on uneven surfaces, ensuring strong adhesion even with misaligned parts. By filling gaps, it contributes to the structural integrity of the assembly, preventing movement or flexing that could weaken the bond over time.

Performance Benefits

FEATURE	BENEFIT
Unique gap fill formulation	Enhances bonding on irregular surfaces—allows for more product use without boiling issues
Ease of use with gap fill	Simplifies assembly by reducing need for precision fitting, saving time and complexity
Minimal surface preparation	No surface prep needed on composites
Environmental resistance	Permanent bonds in harsh environments
Permanent strength and toughness	Excellent fatigue, impact, and shock load resistance
Reduced bond line read through	Reduced post finishing requirements

Additional Resources

- Technical questions? Use the [Ask SCIGRIP](#) feature at [scigrip.com](#)
- Try our [Substrate Match Tool](#) at [scigrip.com](#)
- Request more information and [schedule a demo](#) at [scigrip.com](#)
- [Find a distributor](#) at [scigrip.com/scigrip-us-distributors](#)



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TECHNICAL DATA SHEET

SG2000

METHACRYLATE ADHESIVES

RECOMMENDED FOR BONDING

Composites

Epoxy	Vinyl Ester
Polyester/DCPD	Gelcoats

PRODUCT PROPERTIES (In Minutes)

Cartridge	Adhesive	Activator	Working Time	Fixture Time
Bulk Only	SG2000A	SG2000B	100 - 120	180 - 210

Time to reach 70% of ultimate strength in lap shear @75°F (24°C)¹

TYPICAL ADHESIVE CHARACTERISTICS @75°F (24°C)

SG2000 SERIES Uncured	Part A Adhesive	Part B Activator	A+B Mix
Color	Off White	Amber	Off White
Mix ratio/volume	1	1	-
Mix ratio/weight	1	0.99	-
Density, g/cc	0.95	0.94	0.945
Density, lb/gallon	7.93	7.84	7.88
Viscosity, cps ²	250,000-350,000	250,000-350,000	-

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

Tensile Strength ³ PSI (MPa)	>2,500 (17)
Maximum Tensile Elongation ³	>130%
Tensile Modulus ^{3,4} PSI (MPa)	50,000 (350)
Lap Shear Strength ¹ PSI (MPa)	>1,500 (10)
Service Temperatures	-40 to 180 °F (-40 to 82 °C)

PACKAGING & AVAILABILITY

Cartridges
400 ML 1:1

Pails
5 Gal./19 L

Drums
55 Gal./ 189 L



NOTES:

- Lap shear strength of unprimed aluminium based on ASTM D1002 method.
- Brookfield RV; TD @ 2.5rpm
- Tensile strength, modulus and elongation based on ASTM D638, Type IV
- Tensile modulus as measured in the linear portion of the stress strain curve.



SG2000 SERIES

Safety & Handling

SAFETY AND HANDLING: Read Safety Data Sheet before handling or using this product. Adhesive components A and B contain methyl methacrylate monomer and are flammable. Always use in a well-ventilated area. Floor-level extraction and large quantities of moving air greatly facilitate ventilation. Both materials must be stored in a cool place away from sources of heat and open flames or sparks. Keep containers closed when not in use. Prevent contact with skin and eyes. In case of skin contact, wash with soap and water. In case of eye contact, flush with water for 15 minutes and seek immediate medical attention. Harmful if swallowed. Keep out of reach of children.

PRODUCT APPLICATION & USE: To ensure consistent performance, product temperatures must be held reasonably constant between 65°F (18°C) and 80°F (27°C). Substrate preparation, adhesive/activator ratio, application temperature, humidity and a variety of other environmental and end user application factors are beyond the control of IPS Adhesives; therefore, the end user is solely responsible for determining whether the product is fit for a specific purpose and suitable for the user's product, design and final application requirements.

DISPENSING EQUIPMENT: Dispensing directly from disposable cartridges or meter-mix dispense equipment is strongly recommended. Both methods employ convenient static motionless mixer technology. Contact your SCIGRIP representative for information and availability.

When meter-mix dispense systems are used, care must be taken to assure compatibility between the adhesive components and the materials in the equipment that they contact. All wetted metal components should be constructed of stainless steel or aluminum. Contact with copper, zinc, brass or other alloys containing these materials must be strictly prevented. All non-metallic seals and gaskets should be fabricated from PTFE or UHMW polyethylene based materials.

CURING: Working time is the approximate time after mixing components A and B that the adhesive remains fluid and bondable. Fixture time is the approximate time after mixing components A and B required for the adhesive to develop sufficient strength to allow careful movement, unclamping or de-molding of assembled parts. Parts can generally be put in service when 80 percent of full strength is developed. The time to achieve 80% cure is approximately 2-3 times that required for fixturing. The working and fixture times presented in this bulletin are based on laboratory tests performed at 75°F (24°C). Higher temperatures speed the curing reaction, which reduces working time and speeds the development of strength. The reverse is true for lower temperatures. If significant variation in temperatures or application at very high or low temperatures is anticipated, contact your SCIGRIP representative for technical assistance. The chemical curing reaction that occurs when components A and B are mixed generate heat. The amount of heat generated is dependant on the mass and thickness of the mixed product.

CLEAN UP: Adhesive components and mixed adhesive should be removed from mixing and application equipment with a suitable industrial solvent or cleaner before the mixed adhesive cures. Once the adhesive cures, soaking in a strong solvent or paint remover will be required to soften the adhesive for removal. Contact your SCIGRIP representative for additional information.

SHELF LIFE & STORAGE CONDITIONS: The shelf life of adhesive and activator in unopened containers is six (6) months from the date of manufacture unless otherwise explicitly stated. Shelf life is based on a continuous, steady state storage temperature of between 55°F (13°C) and 80°F (27°C). Exposure to temperatures below 55°F (13°C) or above 80°F (27°C) will impact the product performance and viscosity. Exposure to temperatures above 80°F (27°C) will rapidly reduce the stated shelf life of the product.

IMPORTANT NOTES

- SUBSTRATE AND APPLICATION COMPATIBILITY.** The user must determine the suitability of a selected adhesive for a given substrate and application. SCIGRIP strongly recommends laboratory, shop and end-use testing that simulates the actual manufacturing and end-use environment.
- TECHNICAL ASSISTANCE.** Contact your SCIGRIP representative for questions or assistance with the selection of adhesives and methods for evaluating adhesives for your intended application.

NOTE: This product is intended for use by skilled individuals at their own risk. Recommendations contained herein are based on information we believe to be reliable. The properties and strength values presented above are typical properties obtained under controlled conditions at the IPSA laboratory. They are intended to be used only as a guide for selection for end-use evaluation. The ultimate suitability for any intended application must be verified by the end user under anticipated test conditions. Since specific use, materials and product handling are not controlled by SCIGRIP, our warranty is limited to the replacement of defective SCIGRIP products.

Limited Warranty: Seller warrants to the original Buyer of the goods that all new Seller goods shall be free from defects in material and workmanship for the published shelf life of the good. If any Seller good fails to conform to this Limited Warranty under normal use and storage conditions, and if the original Buyer complies with the terms of this Limited Warranty, then Seller will, without charge to Buyer, replace the nonconforming good.

This Limited Warranty shall not extend to, nor shall Seller be responsible for, damages or loss resulting from accident, misuse, negligent use, improper storage, or improper application.

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