



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

SG400LSE: Making Fast Bonds of LSE Substrates Possible with No Surface Prep

Formulated for bonding polyolefins (low surface energy plastics) in assembly and fabrication applications



SCIGRIP 400LSE is a two-component (10:1), translucent, methyl methacrylate adhesive for bonding polyolefins with no surface preparation required. It bonds polypropylene, polyethylene and has the ability to cross-bond to metals like aluminium and stainless steel. Product is non sagging, and has short fixture times, making it an excellent choice for assembly and other fabrication or manufacturing uses.

Performance Benefits

FEATURE	BENEFIT
No surface preparation	Saves time and cost during the assembly process ²
Translucent cure	Allows for invisible lines that show color of substrate
Short working and fixture times	Faster assembly of multi-stage production lines
Cross bonding to metal	Only solvent cleaning required for bonding metals
No-sag application	Holds beads on vertical or inverted surfaces
Substrate failure	Substrates break before the adhesive does

Additional Resources

- Technical questions? Use the [Ask SCIGRIP](#) feature at SCIGRIP.com
- [Find a distributor](#) at scigrip.com/
- [Get more info or request a demo](#) at scigrip.com/contact-us

1. Viscosity measured by Brookfield HB, Spindle TA, 10rpm.
2. It is always recommended surfaces are cleaned appropriately before adhesive is applied, however, no additional surface preparation is needed.

TECHNICAL DATA SHEET

SCIGRIP 400LSE

LOW SURFACE ENERGY ADHESIVE

RECOMMENDED FOR BONDING

Formulated for bonding low surface energy substrates

PRODUCT PROPERTIES

Cartridge	Adhesive	Activator	Working Time	Fixture Time
SG400LSE	SG400A	SG400B	1-3 mins	6 hrs

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

SG400LSE Uncured	Part A Adhesive	Part B Activator
Color	Off White	Translucent
Mix ratio/volume	10	1
Mix ratio/weight	9.2	1
Density, g/cc	0.95	1.03
Density, lb/gallon	7.94	8.63
Viscosity, cps ¹	50,000-100,000	4,500-10,000

TYPICAL BOND STRENGTH @75°F (24°C)

Substrate	Aged Bond Strength, lbs/in ² (MPa) 24 Hours Failure Mode	
PP	480 (3.3)	Substrate Failure
Glass filled PP	510 (3.5)	Substrate Failure
Talc filled PP	540 (3.7)	Substrate Failure
PP - AI	520 (3.5)	Substrate Failure (PP)
PP - VEFPR	550 (3.8)	Substrate Failure (PP)
PP - ABS	490 (3.4)	Substrate Failure (PP)
PP - Acrylic	540 (3.7)	Substrate Failure (PP)
Nylon 66	580 (4.0)	Substrate Failure
LDPE	730 (5.0)	Substrate Failure
PP-Stainless Steel	560 (3.8)	Substrate Failure (PP)

PACKAGING & AVAILABILITY

Cartridges
50 ML

Also
Available



- Dispensing Guns
- Mixing Tips



SCIGRIP 400LSE

Safety & Handling

DIRECTIONS FOR USE

SCIGRIP 400LSE is packaged in a twin-syringe cartridge that dispenses product in a 10:1 mix ratio. The cartridge must be inserted in the dispensing gun and the mixing tip attached prior to dispensing.

- Insert cartridge into dispensing gun. Open valve. Dispense a small amount of adhesive making sure that both components freely flow from the cartridge.
- Attach the mixing tip to the cartridge. Press the dispensing gun to dispense and discard approximately 1 – 2 inches (2.5 – 5.0 cm) of the product, ensuring that the product is mixed properly in the mixing tip before use. If the mixing tip is left on the cartridge for a sufficient length of time without additional use, the adhesive may cure in the tip. If this happens, remove nozzle and place cap back on cartridge.

SAFETY AND ENVIRONMENTAL PRECAUTIONS

This product is a flammable, reactive adhesive. It is considered a hazardous material. In conformance with the Federal Hazardous Substance Labeling Act, the following hazards and precautions are given. Purchasers who may re-package this product must also conform to all local, state, and federal labeling, safety and other regulations. VOC emissions do not exceed 75 grams per liter.

WARNING! FLAMMABLE. CAUSES SERIOUS EYE DAMAGE

Keep out of reach of children. Do not take internally. Keep away from heat, spark, open flame and other sources of ignition. Keep container closed when not in use. Store away from direct sunlight in a cool 50° – 80°F (10° – 27° C) dry place. Use only in well ventilated area. Avoid breathing of vapors. Atmospheric levels should be maintained below established exposure limit values contained in Section VIII of Material Safety Data Sheet. If airborne concentrations exceed those limits, use of a NIOSH-approved organic vapor cartridge respirator with full face piece is recommended. The effectiveness of an air-purifying respirator is limited. Use it only for a single short term exposure. For emergency and other conditions where short-term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus. Do not smoke, eat or drink while working with this product. Avoid contact with skin, eyes and clothing. May cause eye injury. Protective equipment such as gloves, goggles and impervious apron should be used. Carefully read Material Safety Data Sheet and follow all precautions.

Contains Methyl Methacrylate; 2-methyl propenoic acid. Do not use this product for other than intended use.

“Title III Section 313 Supplier Notification:” This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR372. This information must be included in all Material Safety Data Sheets that are copied and distributed for this material.

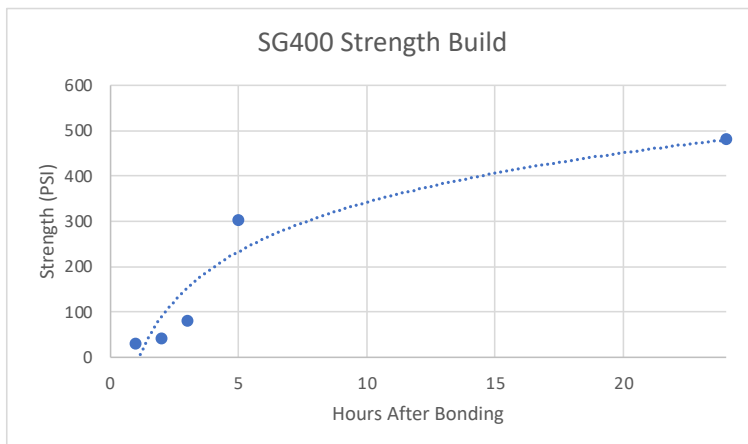
FIRST AID

Inhalation: If overcome with vapors, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician.

Eye Contact: Flush with plenty of water for 15 minutes and call a physician.

Skin Contact: Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get medical attention.

Ingestion: If swallowed, give 1 or 2 glasses of water or milk. Do not induce vomiting. Contact physician or poison control center immediately



QUALITY ASSURANCE

SG400LSE is carefully evaluated to assure that consistent high quality is maintained. A batch identification code is stamped on each can and assures traceability of all materials and processes encountered in manufacturing this plastic adhesive for its intended specific application.

SHELF LIFE

6 months shelf life can be expected when stored in a cool 50° – 80°F (10° – 27°C) dry place.

SHIPPING

Proper Shipping Name: Flammable, n.o.s. Hazard Class: 3. Identification Number: UN 1133. Packing Group: II. Label Required: Flammable Liquid.

IMPORTANT NOTE

This product is intended for use by skilled individuals at their own risk. These suggestions and data are based on information we believe to be reliable. Users should verify by test that this product, as well as these methods, is suited to their application.

WARRANTY

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.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES. SELLER MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, AND EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, ARISING FROM A COURSE OF DEALINGS, AND/OR FROM USAGE OF TRADE.

SELLER SHALL NOT BE LIABLE IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES.

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