SCIGRIP® ADHESIVES

Adhesives With High Heat, Fatigue & Impact Resistant

Strength

Product Guide

SCIGRIP® ADHESIVES

Series	SG100	SG200	SG230HV	SG300
Features, Benefits & Applications	• Excellent UV & environmental resistance • Exterior color critical applications • Intermediate shear strength • Thermoplastics, Composites, Metals	• Small structure plastic bonding applications • Max toughness/ Minimum surface preparation • High shear strength • Composites, plastics, primed metals	• Large structures, marine, transportation & construction • No sag, perfect for large gaps and long working times • Intermediate shear strength • Composites, plastics, primed metals	• Wide variety of assembly operations • Low read through/ Minimum surface preparation • High shear strength • Composites, plastics, metals •
Color Characteristics & Size Options	White 490 ml cartridge or bulk container	Off-White 490 ml cartridge or bulk container	Gray or Black 490 ml cartridge or bulk container	Black or Off-White 490 ml cartridge or bulk container
Gap Fill inch (mm)	0.02 – 0.5 (0.50 – 12.7)	0.02 – 0.5 (0.50 – 12.7)	0.02 – 1.54 (0.50 – 39.0)	0.02 – 0.375 (0.50 – 9.5)
Working Time (min)	**SG100-15:** 12 – 18 **SG100-40:** 35 – 45	**SG200-10:** 8 – 12 **SG200-20:** 17 – 22 **SG200-40:** 35 – 45	**SG230-30:** 25 – 30 **SG230-40:** 35 – 45 **SG230-60:** 50 – 70 **SG230-80:** 70 – 90	**SG300-05:** 4 - 6 **SG300-15:** 13 - 17 **SG300-40:** 35 - 45
Fixture Time (min)	**SG100-15:** 30 – 45 **SG100-40:** 80 – 100	**SG200-10:** 25 – 30 **SG200-20:** 35 – 42 **SG200-40:** 80 – 90	**SG230-30:** 45 – 55 **SG230-40:** 60 – 75 **SG230-60:** 140 – 170 **SG230-80:** 180 – 210	**SG300-05:** 15 - 20 **SG300-15:** 30 - 40 **SG300-40:** 80 - 90
Ratio A:B Vol./Weight	10:1 6.42:1	10:1 8.10:1	10:1 8.4:1	10:1 9.0:1
Density g/cc A,B	**A:** 0.95 **B:** 1.48	**A:** 0.95 **B:** 1.18	**A:** 0.97 **B:** 1.15	**A:** 1.01 **B:** 1.12
Viscosity (10 cP) A Comp B Comp	A: 150 – 220 B: 70 – 180	A: 170 – 220 B: 70 – 180	A: 900-1,400 B: 120-180	A: 175 – 275 B: 120 – 180
Tensile Strength psi (MPa) % Elongation	2,500 – 2,900 (17.2 – 20) 15 – 35	2,500 – 3,000 (17 – 21) 60 - 100	3,000 - 3,500 (21 – 24) 40 – 60	1,700 – 2,200 (12 – 15) 40-60
Shear Strength psi (MPa)	2,000 – 2,400 (14 – 16)	2,200 – 2,500 (15 – 17)	2,050 – 2,400 (14 – 16)	2,300 – 2,800 (16 – 19)

a brand of IPS ADHESIVES

600 Ellis Road, Durham, NC 27703 USA | 877.477.4583 | Fax: 919-598-2439 | ipsadhesives.com | sales@ipsadheisves.com

PRODUCT GUIDE

Series	SG400LSE	SG800	SG2000	SG5000
Features, Benefits & Applications	• Bonding polyolefins in assembly & fabrication • No surface preparation / Cross bonds to metals • Strength results in substrate failure • Low surface energy plastics, metals, composites	• Temperature resistant metal bonder • No Sag / Fast working & Fixture times • High lap shear strength • Cross bonds plastics, FRP and primerless metals	• 1:1 Adhesive for large structures • Unique gap fill formulation up to 39mm./Long working time • Permanent strength and toughness • Composites	• 1:1 Adhesive for metal bonding & mold repair • Metal bonding without surface treatment & repair of fitbreglass molds • High shear strength • Composites, plastics, metals
Color Characteristics & Size Options	Translucent 50 & 490 ml cartridges	Black 490 ml cartridge or bulk container	Amber 400 ml cartridge or Bulk container	Amber or Black 50 & 490 ml cartridges or bulk container
Gap Fill inch (mm)	0.02 – 0.375 (0.50 – 9.5)	0.02 – 0.375 (0.50 – 9.5)	0.02 – 1.54 (0.50 – 39.0)	0.02 - 0.20 (0.50 - 5.0)
Working Time (min)	1 - 3	**SG800-05:** 4 – 5 **SG800-15:** 13 – 17	80 – 100	**SG5000-03:** 2 - 5 **SG5000-06:** 5 - 8 **SG5000-15:** 14 - 19
Fixture Time (min)	6 hours	**SG800-05:** 15 – 20 **SG800-15:** 30 – 40	180 – 210	**SG5000-03:** 6 - 8 **SG5000-06:** 10 - 12 **SG5000-15:** 20 - 25
Ratio A:B Vol./Weight	10:1 9.5:1	10:1 6.0:1	1:1 1.01:1	1:1 1:1
Density g/cc A,B	**A:** 0.95 **B:** 1.03	**A:** 0.96 **B:** 1.62	**A:** 0.95 **B:** 0.94	**A:** 0.96 **B:** 0.97
Viscosity (10 cP) A Comp B Comp	A: 30 – 50 B: 10 – 20	A: 150 – 250 B: 50 – 120	A: 250 - 350 B: 350 - 450	A: 90 – 150 B: 150 – 0250
Tensile Strength psi (MPa) % Elongation	---	2,800 – 3,100 (19 – 21) 25 – 50	>2,500 (17) >130	5,076 - 5,802 (35 – 40) 5 - 10
Shear Strength psi (MPa)	750 (5.2)	2,600 – 2,900 (18 – 20)	>1,500 (10)	2,611 – 3,626 (18 – 25)

Cartridges
5 Gal Pails
55 Gal Drums

The properties and strength values presented herein are typical properties obtained under controlled conditions at the SCIGRIP laboratory. They are intended to be used as a guide for the selection for end-use evaluation. The ultimate suitability for any intended application must be verified by the end user under anticipated test and performance conditions. Visit our website for technical and safety data sheets for each product series. These include important additional information and product handling recommendations. ***scigrip.com***

WHY SCIGRIP?

Expertise

With over 65 years of expertise in high-quality methacrylate adhesive manufacturing, SCIGRIP® stands as a trusted name in adhesive solutions worldwide.

Strength & Performance

SCIGRIP's adhesives are engineered for excellence, offering superior bonding performance for both similar and dissimilar substrates.

Durability

Each of our products undergoes ASTM-certified testing to confirm long-term durability under harsh saltwater conditions.

Fewer SKUs, More Applications

We bring flexibility and adaptability to each project, with a concise product range designed for a wide variety of substrates and applications, including low VOC MMA technology.

Customization & Support

Our global technical support team is here to partner with you, both remotely and onsite, backed by our fully equipped technical service lab. Whether you need a quick, bespoke solution or comprehensive project support, SCIGRIP's specialists are ready to help meet your unique requirements.

Improved Heath & Safety

Prioritizing health and safety, SCIGRIP's products are Isocyanate-free and BPA-free, providing a safer option for your team. We are proud to hold **ISO 9001** certification, along with multiple third-party certifications such as **Lloyds**, **DNV**, **EN45545-2**, and **Pacaar**, reinforcing our commitment to the highest standards of quality and compliance.

Choose SCIGRIP for unmatched performance, dedicated support, and adhesive solutions that excel across numerous industries and applications.

SCIGRIP® ADHESIVES

scigrip.com

IPS® ADHESIVES