# STRUCTURAL ADHESIVES METALS COMPOSITES PLASTICS

Offering the latest advancements in bonding systems and adhesive chemistries for the most demanding customer applications in the Marine, Transportation, Building Construction and Product Assembly markets.













Science + Innovation
= SMARTER ADHESIVE SOLUTIONS





## CHANGING THE WAY YOU PUT THINGS TOGETHER





SCIGRIP Smarter Adhesive Solutions™, a subsidiary of IPS corporation, has been a successful international adhesives manufacturer for over 65 years. This depth of experience has resulted in an organisation that is consistently creating new adhesive chemistries and bonding solutions.



SCIGRIP offers cutting edge formulations of Methacrylate adhesives that are unrivalled for their combination of strength, toughness and ease of use.





SCIGRIP Smarter Adhesive Solutions delivers unsurpassed value and unmatched flexibility, changing the way you put things together.

www.scigrip.com

### **MMA TECHNOLOGY**

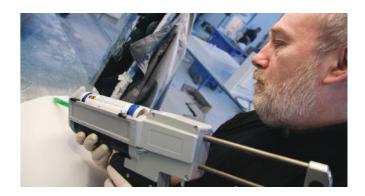
The ultimate structural adhesive

This brochure focuses on our MMA Structural Adhesives range which offers a unique combination of chemistries that tackle the main challenges for adhesives;

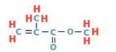
- Toughness
- Surface adhesion
- Cure speed control

SCIGRIP Advanced MMA technology bridges the gap between epoxies and polyurethane providing all the benefits of toughness, fatigue resistance and high peel strength while maintain the highest lap shear performance.

Better than other chemistries MMA's are well known for excellent surface wetting and adhesion to a wide range of substrates avoiding the risk of potentially erroneous surface preparation or priming operations.



SCIGRIP MMA's cure at room temperature. Offering working times of 2 to 130 minutes and fixture times of between 6 minutes to 4 hours - simply by changing the activator, the application time can then be micro-adjusted by changing the ratio of components to optimise productivity on warm or cool days. Compared to many chemistries, the fast green strength gain for a given application time is considered one of the most valuable advantages by many customers.















**Impact** 



Methyl Methacrylate MMA

Peroxide (Free Radical)

Elastomeric Toughners

### RESEARCH AND DEVELOPMENT

Focused on the customer



SCIGRIP has a strong research and development team focused on addressing customers' demands for new application processes, new substrates and assembly performance as well as improving customer productivity.

SCIGRIP's unique patented MMA technology makes new adhesive properties possible that were previously outside the scope of traditional formulators. SCIGRIP believes in a technical team working hand in hand with customers to test our product with your process.

SCIGRIP is committed to manufacturing quality products and maintains ISO 9001 certification for all of its manufacturing facilities. SCIGRIP has also achieved multiple third party product certifications including Lloyds, RINA, and BRE that ensure product performance in key applications.









### **APPLICATION** Key substrates

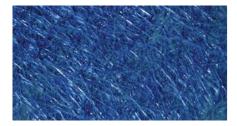
STRUCTURAL ADHESIVES ARE OFTEN USED TO BOND DISSIMILAR MATERIALS AND INCREASINGLY NEW SUBSTRATES ARE A CHALLENGE WE LIKE TO MEET:





#### **METALS**

Selected products in the SCIGRIP range are excellent for bonding metals without the need for a primer. Cutting out this step makes production leaner and improves quality by avoiding potential priming errors.





#### COMPOSITES

Composite components often require thick glue lines to cope with dimensional inaccuracies. SCIGRIP has unique technology to permit selected MMA products to support up to 39mm bondline thicknesses without boiling.





#### **PLASTICS**

The SCIGRIP range has products to meet increasing challenges from low surface energy plastics such as PP & PE to the need for high strength, fast cure and crystal clear bond lines.

#### **MARKETS**

Adapt our technology with success

#### MARINE

Working times to suit all boat builders





#### **TRANSPORTATION**

Fatigue resistant composite to metal bonding

#### BUILDING AND CONSTRUCTION

Peel resistant PVC bonding with snap cure

#### RENEWABLE ENERGY

Large open time and large gap fill without overheating

#### RECREATIONAL VEHICLES

High strength and toughness in bulk and cartridges





#### AGRICULTURAL VEHICLES

Heavy duty metal to plastics bonding with minimal surface preparation

#### **PACKAGING**

#### Meeting the demands of the global market

SCIGRIP Smarter Adhesive Solutions offer a wide range of packing options to meet the demands of the global market and the specific and diverse manufacturing requirements. All of our products are filled in our own manufacturing locations and go though rigorous quality control inspection before supply. All packaging used is made using the latest tried and tested materials to ISO standards.

#### **CARTRIDGE OFFER**



CORP III.

25ml twin syringe 1:1



400ml cartridge for 1:1



50ml Cartridge 1:1



50ml Cartridge 10: 1



490ml cartridge for 10:1

Cartridges are supplied in boxes of 12 units with one nozzle per syringe/cartridge. Latest cartridge technology is used allowing resealing of part cartridges without crosscontamination with significant wastage reduction.

#### **NOZZLES**

490ml 10:1 - CNO7-F-490

400ml 1:1 - CNOZ-F-400

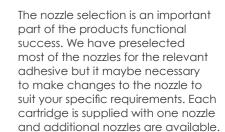
50ml 10:1 - COAX-50-10:1



NONONONONONONON

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25ml & 50ml 1:1 - CNOZ-B-25/50



#### **APPLICATOR GUNS**





Manual Economy - CM4GUN Manual Professional - CM6GUN Pneumatic Professional - CM8GUN



Manual Professional - CM7GUN Pneumatic Professional - CM9GUN

#### **BULK OFFER**

For full dimensions of pails/drums please contact our sales office.



19lt pails straight sided Plastic pails

189lt drums

## straight sided Metal drums

#### **BULK EQUIPMENT**

Bulk application equipment can be a complicated and expensive process but the SCIGRIP team have many years of experience in this field. We have chosen strategic partners around the globe to assist our customers in the design, supply and servicing of equipment in a professional package. Please contact one of our sales team for further information on how we can support your requirements.





## STRUCTURAL ADHESIVES SELECTION GUIDE

COMPOSITES **PLASTICS** 

**METALS** 





## www.scigrip.com

SCIGRIP Changing the way you put things together.

	Description	Adhesive Reference	Colour	Working Time <sup>1 /</sup> Min	Fixture Time <sup>1 /</sup> Min	Ratio A:B Volume (Weight)	Viscosity (10³cps) A Comp B Comp	Tensile Strength <sup>2</sup> MPa (psi) % Elongation	Shear Strength MPa (psi)	Bond Line Gap Min - Max (mm)	Packaging
SG100	Bright White and UV resistant Ideal Marine adhesive	SG100-15	Bright White	12 - 18	30	10:1 (5.68:1)	A: 150 - 220 B: 50 - 100	19 - 22 (2,800 - 3,200)	13 - 16 (2,000 - 2,400) <sup>3</sup>	0.75 - 12	490ml & Bulk
	lacar Marine dariesive	SG100-40		35 - 45	80	(5.55.1)	D. 30 100	> 140%	(2,000 2,400)		
SG200	Composite and Plastic Bonder High Elongation	SG200-10	Off White	8 - 12	25	10:1 (7.7:1)	A: 170 - 220 B: 70 - 180	14 - 17 (2,000 - 2,500) >200%	16 - 19 (2,400 - 2,800) <sup>3</sup>	0.75 - 12	490ml & Bulk
		SG200-20		17 - 22	35						
SG230 HV	High Gap Fill & Non Sag For Marine & Large Structures	SG200-40	Grey	35 - 45	80					0.5.00	490ml* & Bulk
		SG230-30*		25 - 35	45	10:1 (8.4:1)	A: 900 - 1400 B: 120 - 180	20 - 28 (3,000 - 4,000) 150 - 230%	12 - 15 (1,700 - 2,100) <sup>3</sup> 13 - 15 (1,850 - 2,200) <sup>4</sup>	0.5 - 39	
		SG230-40* SG230-60*		35 - 45 50 - 70	140					0.5 - 39 0.5 - 39	
		\$G230-80 \$G230-80		70 - 90	180					0.5 - 39	
		SG230-00 SG230-120		100 - 130						3.0 - 39	
		\$G300-05		4 - 6	15					3.0 37	
SG300	Primerless Metal Bonder High Fatigue High Shear Strength	\$G300-05	Off White & Black	13 - 17	30	10:1 (8.75:1)	A: 190 - 250 B: 50 - 150	14 - 15 (2,000 - 2,200) 100 - 125%	17 - 19 (2,500 - 2,800) <sup>3</sup>	0.5 - 12	50ml , 490ml & Bulk
		\$G300-40		35 - 45	80						
SG600	All purpose Composite & Plastic Bonder. High Toughness	\$G600-05	Off White & Black	4 - 6	15	10:1 (8.44:1)	A: 150 - 250 B: 80 - 120	18 - 21 (2,600 - 3,000) > 140%	19 - 22 (2,700 - 3,200) <sup>3</sup>	0.75 - 12	50ml , 490ml & Bulk
		SG600-10		8 - 12	25						
	High Toughness Excellent flow & wet out	SG600-20		15 - 20	35						
SG1500	Primerless Metal Bonding High Shear Strength High Toughness	SG1500-05	Amber	4 - 6	15	1:1 (1.08:1)	A: 80 - 120 B: 100 - 140	17 - 22 (2,500 - 3,100) > 80%	19-22 (2,700 - 3,200) <sup>3</sup>	0.5 - 5	50ml , 400ml & Bulk
		SG1500-15		12 - 16	30						
		SG1500-30		25 - 35	60						
		SG1500-60		50 - 70	140						
SG5000		SG5000-03	Amber & Black	2 - 4	6 - 8	1:1	A: 30 - 100 B: 50 - 120	31 - 32 (4,500 - 4,600) > 7%	20 - 25 (2,900 - 3,600)	0.5 - 5	25ml, 50ml, 400ml & Bulk
	General Purpose  Maximum Shear Strenath	SG5000-06		5 - 7	10 - 12						
	Maximum Shear Strength	SG5000-13		12 - 14	20 - 25						
		SG5000-40		35 - 45	55 - 60						
PPX5	Ultimate Plastic Bonder for Low Energy Surface PE & PP Plastics	PPX5	Opaque	4 - 6	15	10:1	A: 6.5 - 8.5 <sup>7</sup> B: 5.5 - 7	5 - 15° (<2100) > 10%	< 16 (2400)	0.1 - 2	50ml & Bulk
SG3004	Clear, low exotherm Plastic bonder	SG3004-03	Clear	2-3	4 - 6	1:1	A: 8 - 10 <sup>7</sup> B: 24 - 28	> 40%	15 - 17 (2100 - 2500)	0.1 - 2	25ml, 50ml, 400ml & Bulk
SG3295	High strength Low viscocity	SG3295-03	Pink & Green	1.5 - 2.5	3 - 4	1:1	A: 5.5 <sup>7</sup> B: 5.5	15 <sup>6</sup> (2100) 25%	21 (3100)	0.1 - 2	25ml, 50ml, 400ml & Bulk
#42	Crystal clear, Mil Spec Plastic Bonder	#42	Clear	15	120	10:1	29	< 5%	15 – 17 (2100 - 3000)	0.1 - 2	50ml
#45	Multi use High strength	#45	Amber	6	15	4:1	500	> 50%	16 (2300)	0.5 - 5	400ml

# FURTHER **SMARTER ADHESIVE SOLUTIONS**AVAILABLE FROM SCIGRIP:



#### HOLDTITE ENGINEERING

SCIGRIP's well established range of REACH compliant engineering, maintenance, adhesives and sealants has grown and developed with the OEM and MRO industrial sectors over the past 3 decades. This division is a highly accredited sector of the SCIGRIP European Group, with WRAS, AGA, ASTM, NSF, DVGW, MIL specifications available for many of the products.

#### THE RANGE INCLUDES:

- ANAEROBICS
  - THREADLOCKERS
  - RETAINERS
- SEALANTS & GASKET MAKERS
- CYANOACRYLATE (CA) INSTANT ADHESIVES
- RTV SILICONES POWERCAN PACKAGING
- EPOXY STICKS AND REPAIR COMPOUND
- UV ADHESIVES
- ACTIVATORS AND PRIMERS



#### SIGN AND DISPLAY

This range of SCIGRIP adhesives covers a wide scope of technologies all designed to incorporate the specific needs of the Sign and Display, shopfitting and plastic assembly market.

#### THE RANGE INCLUDES:

- SOLVENT BASED CEMENTS
- CYANOACRYLATE (CA) INSTANT ADHESIVES
- UV ADHESIVES
- CLEAR MMA
- CLEAR 2 PART PU
- CLEAR EPOXY
- MS POLYMERS
- TOUGHENED ACRYLICS

Bonding a variety of diverse substrates from ABS, GRP, Metal, Glass, Polycarbonate, Wood, Polyester, PVC & Styrene.

Your distributor
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