



CRESTABOND[®]

Primerless MMA Structural Adhesives

 **ADHESIVES** by
SCOTT BADER

CRESTABOND®

Primerless MMA Structural Adhesives

Scott Bader is a global company with over 40 years experience in designing and manufacturing high quality adhesives.

Scott Bader benefits from an industry leading technical support team available to assist customers with technical advice.

Scott Bader also boasts in house laboratory testing facilities allowing for a rapid response to customer requests.

The Crestabond® range of M7 / PP (1:1) and M1 (10:1) structural adhesives are unique to the market due to the incorporation of our novel tougheners.

The Crestabond® range of adhesives benefits from a range of working times to suit different applications.



Market Applications



Marine
from kayaks to
super yachts



Land & transportation
buses, coaches, cars,
trains and trucks



Building & construction
doors, windows
and cladding



Wind energy
blades, housing
and nacelles



Recreational vehicles
motorhomes
and caravans



Agricultural vehicles
tractors, diggers, off-road
and combine harvesters

Guide To Bonding

Check first

- ▶ Product is within shelf life
- ▶ Cartridge has been stored correctly
- ▶ No obvious defect or damage to cartridge
- ▶ No blockages at the cartridge outlet
- ▶ Correct static mixing nozzle is being used

Key points

- ▶ Higher or lower working temperatures will cause the working time to decrease or increase
- ▶ Static mixers must always be discarded after use
- ▶ Operating temperature of Crestabond® is from -40°C up to 100°C

3 main groups of substrates to bond to:

Metals

- ▶ Some surface cleaning is required – remove any obvious dirt, grease, oxidation and other contaminates with either acetone, MEK or IPA
- ▶ Galvanised or zinc coated metals should be bonded using the Crestabond® M7 (1:1) range
- ▶ When bonding cold rolled steel (CRS), ensure that the substrate has been cleaned, abraded and then cleaned once more in order to achieve the best results

Composites

- ▶ Some surface cleaning is required – remove any obvious dirt, grease and other contaminates with either acetone, MEK or IPA
- ▶ Gelcoat substrates need to be cleaned and may require a light abrasion with a 100-140 grit sandpaper and a further clean
- ▶ All composites can be bonded with Crestabond®

Plastics

- ▶ Some surface cleaning is required – remove any obvious dirt, grease and other contaminates with either acetone, MEK or IPA
- ▶ For bonding low surface energy plastics such as Polypropylene (PP), Polyethylene (PE) and other Polyolefins, Crestabond® PP-04 must be used

Crestabond® Features & Customer Benefits

Crestabond® features	Customer benefits
Primerless adhesives	▶ Dramatically enhances production efficiency and reduces consumable costs
Minimal surface preparation	▶ Reduces dust emissions and preparation time
Excellent fatigue and impact resistance	▶ Confidence in the longevity of the finished product
Range of working and fixture times	▶ Optimises production cycles to reduce manufacturing costs
Good gap filling capability	▶ Adhesive can be used in multiple applications
Bonds dissimilar substrates	▶ Provides flexibility in structural designs

Crestabond® Dispensing Equipment

- ▶ The Crestabond® cartridges can be used with a manual or pneumatic gun. Suitable dispense guns and static mixers are available from Scott Bader
- ▶ Crestabond® adhesives can be dispensed directly from pails and drums using an automated 1:1 or 10:1 dispensing machine
- ▶ Scott Bader technical support can provide advice on appropriate dispensing equipment



Adhesive Selection Guide - Standard Range

Selection of the appropriate product is essential for long-term adhesion and durability.

► **Step 1** Choose the adhesive with optimal working and fixture times

Crestabond® Product	Description	Colour	Mix ratio by volume	Viscosity (cP)	Working Time (mins)	*Fixture Time (mins)	Tensile Strength (MPa)	Tensile Modulus (MPa)	Elongation at break (%)	Gap Fill (mm)
M1-02	Universal Bonder	Dark Grey	10:1	100,000 - 140,000	1 - 2	2 - 3	12 - 16	600 - 1000	80 - 100	1 - 15
M1-04	Universal Bonder	Dark Grey	10:1	100,000 - 140,000	3 - 5	8 - 10	16 - 20	600 - 1000	80 - 100	1 - 15
M1-04 SL	Universal Bonder	Dark Grey	10:1	10,000 – 30,000	4 - 7	10 - 12	16 - 20	600 - 1000	80 - 100	1 - 5
M1-05	Universal Bonder	Dark Grey	10:1	100,000 - 140,000	4 - 7	12 - 18	16 - 20	600 - 1000	80 - 100	1 - 15
M1-10	Universal Bonder	Dark Grey	10:1	100,000 - 140,000	8 - 12	16 - 23	16 - 20	600 - 1000	80 - 100	1 - 15
M1-20	Universal Bonder	Dark Grey	10:1	100,000 - 140,000	16 - 22	25 - 35	16 - 20	600 - 1000	80 - 100	1 - 25
M1-30	Universal Bonder	Dark Grey	10:1	200,000 - 240,000	25 - 35	60 - 80	18 - 22	600 - 1000	100 - 130	1 - 50
M1-60HV/2	Universal Bonder	Green	10:1	340,000 - 380,000	50 - 70	110 - 140	20 - 25	1000 - 1400	70 - 100	1 - 50
M1-90HV/2	Universal Bonder	Green	10:1	340,000 - 380,000	80 - 100	110 - 140	20 - 25	1000 - 1400	60 - 90	1 - 50
M7-04	Universal Bonder	Off White	1:1	30,000 - 70,000	3 - 5	12 - 15	22 - 25	1200 - 1700	6 - 10	1 - 5
M7-05	Universal Bonder	Off White	1:1	30,000 - 70,000	4 - 7	18 - 22	22 - 25	1200 - 1700	25 - 30	1 - 5
M7-15	Universal Bonder	Off White	1:1	30,000 - 70,000	10 - 20	30 - 45	22 - 25	1200 - 1700	25 - 30	1 - 5
PP-04	Low surface energy Bonder	Off White	1:1	70,000 - 140,000	3 - 5	165 - 180	12 - 17	800 - 1200	2 - 5	0.5 - 5

Based on laboratory results *Time taken at 23oC to achieve 1.4MPa strength in lap shear tests according to BS ISO 4587

Pack sizes

Cartridges	Bulk
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- M1 (10:1) range**
 - 50ml side-by-side
 - 400ml coaxial
 - 490ml side-by-side
 - 825ml side-by-side
- 20 Litre/ 18kg pails**
► 200 Litre/ 180kg drums

- M7 and PP (1:1) Range**
 - 50ml side-by-side
 - 400ml side-by-side

Consult your representative for information on how to order bulk packed materials

Product	Composites		Metals					Plastics				
	GRP		Stainless Steel	Aluminium	Powder Coated Steel	Cold Rolled Steel	Galvanised	ABS	Acrylic	Polycarbonate	PVC	PP/PE & TPO
M1-02	✓		✓	✓	✓	✓		✓	✓	✓	✓	
M1-04	✓		✓	✓	✓	✓		✓	✓	✓	✓	
M1-04SL	✓		✓	✓	✓	✓		✓	✓	✓	✓	
M1-05	✓		✓	✓	✓	✓		✓	✓	✓	✓	
M1-10	✓		✓	✓	✓	✓		✓	✓	✓	✓	
M1-20	✓		✓	✓	✓	✓		✓	✓	✓	✓	
M1-30	✓		✓	✓	✓	✓		✓	✓	✓	✓	
M1-60HV/2	✓		✓	✓	✓			✓	✓	✓	✓	
M1-90HV/2	✓		✓	✓	✓			✓	✓	✓	✓	
M7 range	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	
PP-04	✓		✓	✓		✓		✓	✓	✓	✓	✓

► **Step 2** Check the adhesive bonds the required substrates:

- Composites
- Metals
- Plastics
- Galvanised

► **Step 3** Arrange a demonstration or trial by contacting your local Scott Bader representative or email enquiries@scottbader.com



Find your local Scott Bader office



Issue 20 - July 2025

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We invest in people Gold

ADHESIVES
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