

# Sabre Bond SMP40



## USE

Structural bonding, neutral adhesive/sealant.  
Flexible Class A (+/-50%) joint movement.  
Suited to aluminium, steel, glass, concrete, polyester, timber and many plastics.  
Ideal for production/repair of motor body, marine, railway, production industry, building construction and RV applications.



## ADVANTAGES

Flexible and strong – an ideal alternative to rivets, bolts and welding.  
High UV stability tested in Australia's and NZ's high ultra-violet environments.  
USDA-approved for plant food use.  
Non-hazardous.  
No solvents, isocyanates, biocides, silicone, or fire risk.  
Easy tooling, non-slump, smooth skinning, non-melt and colour stable.  
Paintable and no priming required on most substrates – see page two.  
Colours: white, grey, black.  
British Standard colours available on indent order.  
High dielectric strength – won't promote corrosion between dissimilar metals when full adhesive spread is used.



## IMPORTANT

Not for automotive glazing.  
Not for aquarium use.  
Not for prolonged exposure to highly alkaline materials, e.g. petrol, lye.  
Not for high traffic area use – use SABRE BOND SMP60 for floor joints.



## SAFETY

Material Safety Data Sheet is on page four.  
Product is non-hazardous.  
Use with adequate ventilation.  
Vapour inhalation during cure may cause slight eye and/or throat irritation.  
National Poisons Centre:  
Australia 13-11-26  
New Zealand 0800-764-766



## SPECIFICATIONS

Skin time @ 20°C 50% r.humidity	20 minutes
Elongation @ break% DIN 53504/ISO 37 (rate = 50mm/min)	+375%
Tear strength @ 100% elongation (DIN 53504) (rate = 50mm/min)	3.2MPa (N/sq.mm)
Green strength (PR MC100)	+300Pa
Lap shear	2.6MPa (N/sq.mm)
Hardness shore 'A'	45-50
Application temperature	+3°C to +30°C
Service temperature	-22°C to +140°C
UV rating	after 2000 hours UV-A no appearance or physical property changes ASTM G26

# Sabre Bond SMP40



## HOW TO USE

### **Application:**

Substrates to be clean of oil, dirt, contaminants and old sealant.

Mask joint edges.

Cut nozzle end at 45 degrees angle to the desired opening.

Cut end from cylinder bung leaving the thread.

Screw nozzle to bung thread.

Place in cylinder applicator gun.

Insert nozzle into joint, squeeze trigger and push gun in a forward direction – never pull backwards as air may be trapped in joint preventing a good seal.

Remove masking before skinning.

*See opposite page for joint designs and joint quantity estimation table >*

### **Priming:**

Priming is not generally needed.

Clean critical substrates with SABRE WIPE, an excellent static degausser for all plastics.

Prime porous concrete, timber, brick and stone with SABRE PrimePo.

Prime critical non-porous surfaces, i.e. hi-nickel, stainless steel or bronze, with SABRE PrimeMet.

### **Painting:**

SABRE SEAL MS is suitable for most paints – test for compatibility.

For best paint bond, apply promptly after sealant cure.

‘Slippery’ powder-coats will bond better if lightly abraided then wiped with SABRE WIPE.



100m JOINT QUANTITY ESTIMATION TABLE

JOINT SIZES		300ml	600ml
Width	Depth	CYL	SAUS
5	5	8	4
6	6	12	6
8	8	22	11
10	10	34	17
12	12	46	23
15	10	50	25
15	12	60	30
15	15	75	38
20	10	87	44
20	20	134	67
25	12	100	50
25	25	210	105
30	15	160	80
30	30	300	150
40	20	266	113
40	40	634	317

FIGURE 2 BOND BREAKER

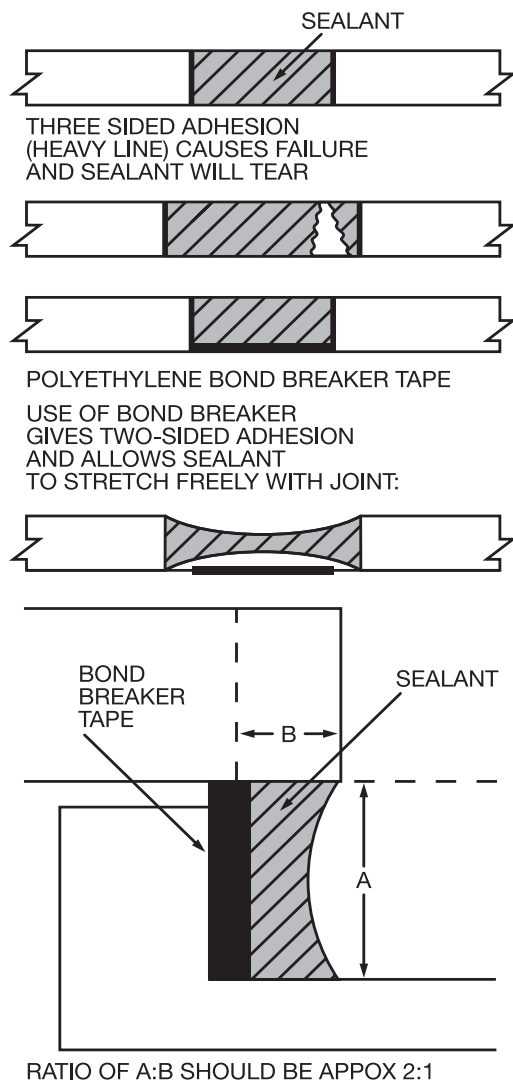


FIGURE 1 DESIGN

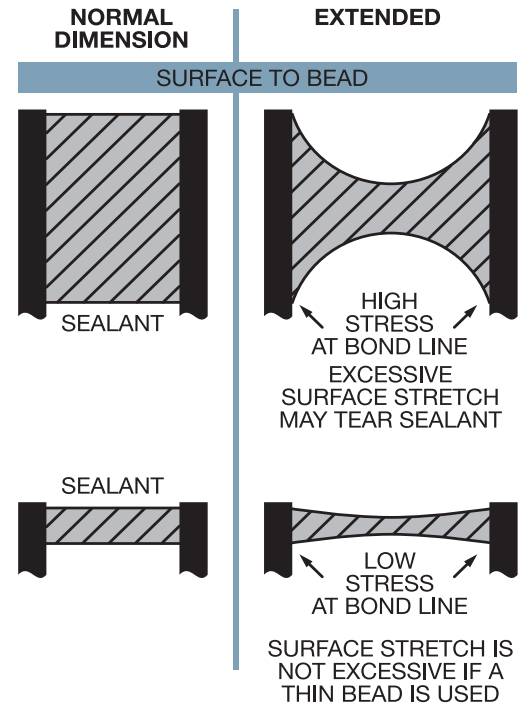
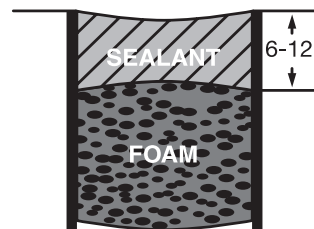


FIGURE 3 TYPICAL JOINT DETAILS

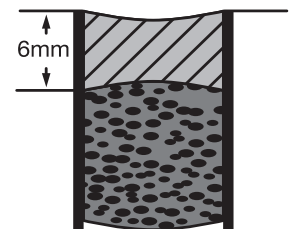
### BUTT JOINTS

OVER 6mm WIDE



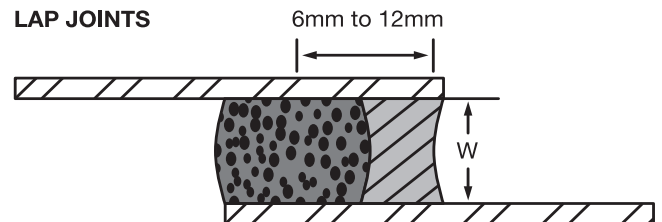
USE FOAM BACK-UP IF JOINT DEPTH EXCEEDS 9mm

UP TO 6mm WIDE



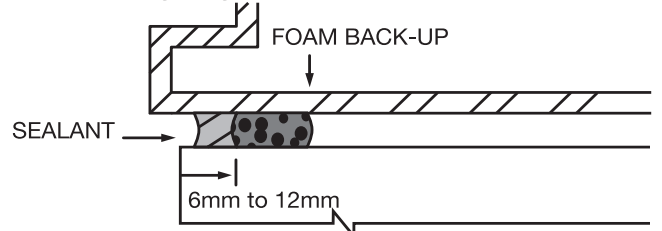
USE FOAM BACK-UP IF JOINT DEPTH EXCEEDS 6mm OTHERWISE USE NON-ADHERING TAPE

### LAP JOINTS



SEALANT WIDTH SHOULD BE EQUAL TO THE EXPECTED MOVEMENT

### PERIMETER SEALS



# Sabre Bond SMP40

## Product:

Sabre Seal MS, all colours.	
Chemical family	Sylol modified polymer
Proper shipping name	N/A
Use	Structural bonding and joint sealing
UN number	N/A
Hazard class	N/A
Subsidiary risk	N/A
Hazchem code	N/A
Poisons schedule	N/A
Packing group	N/A

## Description/properties:

Coloured thixotropic viscosity	
Odour	Nil
Specific gravity	+/- 1.3 – 1.7
Water solubility	Nil – incompatible
Flash point	+100°C (un-cured)
Autoignition	N/A
Plastic point	N/A
Vapour pressure	Nil
Flammability	Yes
VOC	Less than 9g/L (nil – minimal)

## Ingredients:

Ingredients:	Content	CAS. No
Calcium carbonate	less than 70%	1317-65-3
Proprietary polymers	less than 30%	–
Titanium dioxide	less than 10%	13463-67-7
Carbon black*	less than 1%	1333-86-4

\*Black and grey only

## Health hazard data:

Swallowed	Very low toxicity
Eye	Mild product/vapour irritation possible. Uncured material is hydrophobic.
Inhaled	Avoid constant vapour inhalation which may cause mucous membrane irritation.
First aid:	
Swallowed	Ingesting large amounts may be harmful. Do NOT induce vomiting. Give NOTHING by mouth. Contact doctor or National Poisons Centre: Australia: 13-11-26 New Zealand: 0800-764-766
Eye	Hold eye(s) open and flush with clean water for at least 15 minutes and see doctor.
Skin	Remove contaminated clothing and rinse skin copiously for at least 15 minutes.
Inhaled	Remove to fresh air. If symptoms persist, see doctor.

## User precautions:

### Exposure limits:

Department of Labour Workplace Exposure Standards 1994.  
TWA is Time Weighted Average.  
STEL is Short Term Exposure Limit.  
TLV is Threshold Limit Value.

### Chronic exposure:

Chronic exposure has indicated potential liver abnormalities in rats.

### Ventilation:

Use in well ventilated areas.

### Human protection:

In normal use, respiratory protection not needed.  
Enclosed space use requires a nose/mouth organic vapour respirator.  
Wear PVC or latex gloves to prevent skin drying/irritation or contamination.  
Wear safety glasses if eyes may be contacted.

### Safe handling:

#### Storage/Carriage:

Product is non-hazardous.

### Spills/Disposal:

Isolate. Collect and store in closed package.  
Dispose in suitable manner.

### Fire/Explosion:

Minimal flammability but will combust at very high temperatures.

Fire extinguishing: Foam, carbon dioxide or dry chemical.

Special fire fighting procedures: Wear self-contained approved breathing gear if large volumes burning.

Combustion bi-products: Carbon dioxide and various unidentified organic compounds.

### Other:

Product is non-hazardous but can cause irritation.  
Use reasonable care as with all chemicals.

## YOUR SABRE RETAILER:

### Distributed by:

Mitchell Laminates  
32-38 Redwood Dve  
Dingley Vic 3172  
P (03) 9558 0800  
F (03) 9558 0557

sales@mitchelllaminates.com.au  
www.mitchelllaminates.com.au



**Mitchell Laminates**

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