



# SAF B 103F

## TWO COMPONENT METHACRYLATE

### KEY FEATURES

- Very fast curing time
- High temperature and impact resistance
- Liquid
- Permanent toughness even after ageing
- Minimal surface preparation

### DESCRIPTION

The SAF range is made of patented methacrylate adhesives and shows unmatched performance in term of resistance and flexibility. These adhesives have been designed for bonding a wide range of dissimilar substrates including metals and plastics as well as composite materials for industrial applications. The outstanding properties of the SAF range allow structural bonding while keeping flexibility and fatigue resistance.

The SAF range products have been developed to resist the most aggressive environments and extreme temperatures. It shows unprecedented results facing weathering and ageing.

### RANGE OF APPLICATION

The SAF B 103F is recommended for the followed substrates:

Steel	Polyester	PVC
Stainless Steel	DCPD	PC
Aluminium	Elium	PS
Powder coated steel	Vinyester	ABS
Epoxy	PMMA	-

### PRODUCT CHARACTERISTICS

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Characteristics	SAF B 103F
System	Two component 1:1 Volume Ratio
Polymerization	Room Temperature
Operating temperature	-40°C to 150°C
Elongation	30 %

### ADHESIVE PROPERTIES

PHYSICAL PROPERTIES		
PROPERTIES	RESIN	HARDENER
Appearance	Transparent brown	
Density	0.980	1.100
Viscosity Brookfield at 23°C [mPa.s]	A: 2000-3000 <sup>1</sup> B: 4000-5000 <sup>1</sup>	
Type	Liquid	

CURING PROPERTIES	
PROPERTIES	SAF B 103F
Open time [min]	1-2
Fixture time @ 24°C [min]	3-5
Full Cure [hours]	24

MECHANICAL PROPERTIES	
PROPERTIES	SAF B 103F
Lap Shear strength [MPa] <sup>3</sup>	22
Tensile Strength at break [Mpa] <sup>2</sup>	25-30
Tensile Modulus [Mpa]	350-450
Hardness [Shore D]	70-80
% elongation at break <sup>2</sup>	30

## WEATHERING AND AGEING RESISTANCE

LAP SHEAR STRENGTH (Mpa) <sup>3</sup>		
Substrates	Before ageing cycles	After ageing cycles
Aluminium 6060	22.0 CF <sup>4</sup>	-
Stainless steel	23.0 CF	-
PMMA	6.0 CF	-

### NOTES

1. Brookfield viscosity (mPa.s) mobile RV7 @10trm
2. With ISO 527-IA
3. With ISO 4587
4. CF: Cohesive Failure

### SURFACE PREPARATION

Use AEC T700 to remove grease, contamination or poorly adhering oxides from metal surfaces. Most plastics require a simple cleaning before bonding. Some may require sanding for better performances.

### PRECAUTIONS

Adhesive contains methacrylate monomers and is flammable. Materials must be stored in cool place away from sources of heat. During the polymerization, the chemical reaction causes a typical smell, please use the product in a well-ventilated area.

When the adhesive two components are mixed, an exothermic reaction can occur and generates heat. The amount of heat is dependent on the mass and thickness of the mixed product. It can reach a maximal temperature of 100°C.

Adhesives contain chemical materials, prevent contact with skin and eyes. In case with skin contact, wash with soap and water. In case of eye contact, flush with water and seek immediate medical attention. Do not swallow and keep away from children.

Read material Safety Data Sheet before handling or using this product.

## APPLICATION

The optimum qualities are obtained at room temperature, between 12°C and 35°C without post-curing.

Follow the instructions on the product operating guide or contact your Bostik representative for any information concerning product use, dispensing equipment or substrates application.

### STORAGE

The SAF B 103F shelf life is 6 months in unopened original packaging. The product may be stored in a closed container in a dry place at temperature between 15°C and 30°C.

Exposure to higher or lower temperature will result in a reduction of the stated shelf life.

### PACKAGING

The SAF B 103F adhesive is available in 50mL and 400mL side by side cartridges, or 2.5 kg pails.

SAF B 103F 50mL cartridges require the use of M5.4/16 mixers. SAF B 103F 400mL cartridges require the use of M20-21 mixers.

For packaging information please call your Bostik sales or technical representative.

### LIMITED WARRANTY

To the maximum extent allowed by law, Bostik disclaims all other express or implied warranties, including without limitation warranties of merchantability and fitness for a particular purpose. Unless otherwise stated in the limited warranty, the sole remedy for breach of warranty is replacement of the product or refund of the buyer's purchase price. Bostik disclaims any liability for direct, incidental, consequential, or special damages to the maximum extent allowed by law. Disclaimers of implied warranties may not be applicable to certain classes of buyers and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. The Limited Warranty extends only to the original purchaser and is not transferable or assignable. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

### BOSTIK HOTLINE

Smart help +33 5 57 26 15 15

AEC Polymers  
6 Rue Guy Pellerin  
33114 Le Barp, France  
[www.bostik.com/aecpolymers](http://www.bostik.com/aecpolymers)

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