



BOSTIK

SAF30 45

TWO COMPONENT METHACRYLATE

Version date: 11 2023

KEY FEATURES

- Long curing time
- Non-sag, application on vertical surfaces
- Temperature resistance even under stress
- Excellent environmental resistance
- 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 SAF30 45 is recommended for the followed substrates:

Metals	Composites	Plastics
Steel	Polyester	PVC
Stainless Steel	Acrylic (Elium)	PS
Aluminium	Vinyester	ABS
	Epoxy	PC
		PMMA

PRODUCT CHARACTERISTICS

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Characteristics	SAF30 45
System	Two component 10:1 Volume Ratio
Polymerization	Room Temperature



ADHESIVE PROPERTIES

PHYSICAL PROPERTIES

PROPERTIES	RESIN	HARDENER Bostik SAF D
Appearance	Off White	White/Black
Density (+/- 0,02)	1.03	1.16
Viscosity @ 23°C	200 000 - 600 000 ¹	80 000 - 250 000 ¹
Type	Non-sag	

CURING PROPERTIES

PROPERTIES	SAF30 45
Open time @23°C [min]	25 - 35
Fixture time @23°C [min]	40 - 60
Full Cure [hours]	24

MECHANICAL PROPERTIES

PROPERTIES	SAF30 15
Lap Shear strength [MPa] ² Thickness 250 µm	21.0 CF ⁴
Tensile Strength at break [MPa] ³	12-17
Tensile Modulus [MPa] ³	800-1100
Hardness [Shore D]	70 - 80
Elongation at break ³	25-30%

WEATHERING AND AGEING RESISTANCE

Lap shear strength (MPa) with ISO 4587 after D3 cycle.
D3 cycle NF EN ISO 9142 7 ageing cycles (7 days).

LAP SHEAR STRENGTH (MPa) ²		
Substrates	Before ageing cycles	After ageing cycles
Aluminium 6060	21.0 CF ⁴	22.0 CF
Aluminium 6061	21.0 CF	22.0 CF
Stainless steel	21.0 CF	21.8 CF
Steel	22.0 CF	23.0 CF
PMMA	SF ⁵	SF
ABS	SF	SF
FRP	DF ⁶	DF

NOTES

1. Brookfield viscosity (mPa.s) mobile T-F @ 10 rpm
2. ISO 4587
3. With ISO 527-1A
4. CF: Cohesive Failure
5. SF: Substrate Failure
6. DF: Delamination Failure

SURFACE PREPARATION

Use BOSTIK 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.

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

APPLICATION

The optimum qualities are obtained at room temperature, between 15°C and 25°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 SAF30 45 shelf life is 9 months in unopened original packaging. The product may be stored in a closed container in a dry place at temperature between 15°C and 25°C.
The SAF D shelf life is 12 months in unopened original packaging. The product may be stored in a closed container in a dry place at temperature between 15°C and 25°C.
Exposure to higher or lower temperature will result in a reduction of the stated shelf life.

PACKAGING

The SAF30 45 adhesive is available in 50mL and 490mL side by side cartridges, 20L pails or 200L drums.
SAF30 45 50mL cartridges require the use of M5.4/16 mixers.
SAF30 45 490mL cartridges require the use of MFX10-18 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

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This document supersedes all previously published literature.