Product Data Sheet
SABA Sealer MB-T

adhesives & sealants

Description

SABA Sealer MB-T is a highly chemically resistant and permanently elastic sealant. Solvent-free, non-sagging and UV stable, based on polysulphide (2-component). Easy to process, with little or no shrinkage and durably applicable as a result of excellent elastic recovery following loading within the maximum permissible deformation.

Areas of application

SABA Sealer MB-T was developed for elastic, liquid-proof sealing of vertical (expansion) joints. Suitable for installations for storage, filling or treatment of substances that are hazardous for watery environments and/or where (temporary) high chemical resistance is required, such as at petrol stations, chemical plants and emergency reservoirs. Also suitable for normal or fuel-resistant (expansion) joints in paving constructions of (prefabricated) elements such as those used in motorways, highways, parking facilities, bridge decks, airports, industrial floors and/or other surfaces for driving.

Advantages

- non-sagging
- for use in the SABA Sealflex system for joints to absorb extreme stresses or renovations
- resistant to defined motor fuels, solvents and chemicals (see chemical resistance)
- resistant to extreme climate/weather conditions
- durable elastic seal, reference period of 25 years

Technical data

Properties*	
Base component A & B	polysulphide & manganese oxide
Density component A & B (EN 542)	A: ≈ 1.470 kg/m³ (grey)/ ≈ 1.330 kg/m³ (black) B: ≈ 1.660 kg/m³
Processing time (23 °C, 50% RH)	≈ 150 minutes
Application temperature (min./max.)	+5 °C / +35 °C
Substrate temperature (min./max.)	+5 °C / +35 °C, +3 °C above the dew point
Curing time (23 °C, 50% RH)	≈ 18 hours
80% of the final strength (23 °C, 50% RH)	≈ 12 hours
Loadable after (23 °C, 50% RH)	≈ 36 hours
Shore A hardness (EN ISO 868)	≈ 25
Volume loss (EN ISO 10563)	< 2%
Max. permissible deformation (ISO 11600)	≈ 25%
Modulus at 100% elongation (EN ISO 8339)	≈ 0,2 N/mm²
Tensile strength (Fmax) (EN ISO 8339)	≈ 0,6 N/mm²
Elongation at break (EN ISO 8339)	≈ 350%
Elastic recovery (EN ISO 7389)	≈ 90%
Temperature resistance (min./max.)	-40 °C / +120 °C
Colours (standard)	grey, black
Packaging	sets (A + B component) of 450 ml in a cartridge, 2,5 litres and 7,5 litres
Shelf life	6 months (450 ml cartridge) and 12 months (2,5 and 7,5 litres) in the unopened original packaging, if protected against moisture and direct sunlight
Storage temperature (min./max.)	+5 °C / +25 °C

** Tested according to SABA Analysis Method unless stated otherwise.*

Certificates & test reports

- CE marking based on EN 14188-2, class A-D & EN 15651-4, Type PW 25LM INT-EXT
- Allgemeine bauaufsichtliche Zulassung Z-74.6-155 issued by DIBt, SABA sealant system for joints in installations for storage, filling or treatment of substances that are hazardous for watery environments
- meets the FS S-SS 200E specification for application to airports

Equipment

Mixing:

- SABA Mengset MKK 450 with a drill (450 ml cartridge)
- SABA Mixing Spiral MKK 450 with a drill (sets of 2,5 litres)
- SABA Universal Mixer (sets of 7,5 litres)

Application:

- manual or air-powered gun for 450 ml cartridge, such as SABA HKK 450 or SABA LKK 450
- air-powered gun, e.g. SABA LKB 2500 RV or LKB 7500 RV and a pressure plate for the cans

For advice and more information about SABA application equipment, please contact our customer service department.

Application

Preparation: Bonding surfaces must be dimensionally stable, dry, homogenous and free of grease, oil, dust or loose parts. Remove contamination such as cement laitance, rust and bitumen. Use backing material to obtain the correct layer thickness and prevent three-point adhesion.
Bonding surface pretreatment: Use the SABA Pretreatment Table for Environment & Infrastructure to determine which cleaner and/or primer should be used. Ask SABA for advice in case of doubt or if your substrate does not occur in the list.
Mixing: The A and B components of a set must have the same batch number. Add the B component to the A component and mix to form a homogeneous, streak-free mixture.

Packaging	Mixing method	Mixing time (23 °C, 50% RH)
450 ml cartridge	Drill with mixing spiral	≈ 2 minutes
2,5 litre set	Drill with mixing spiral	≈ 4 minutes
7,5 litre set	SABA Universal mixer	≈ 5 minutes

Application: Inject the sealant with a continuous, smooth action without creating air inclusions in the joint. Always start at the bottom of the joint and fill the joint from the bottom to the top. Fill the joints to the lower edge of the bevel.
Finishing: Finish SABA Sealer MB-T with tools soaked in soapy water. Use only neutral and acid-free soap, such as Sabafinish.
Curing mechanism: The curing speed depends on the temperature. At higher temperatures curing is faster, at lower temperatures curing is slower.
Cleaning: Uncured material can be removed from tools and equipment with Sabaclean 22. Cured material must be removed mechanically.
Repair: Remove all the old sealant mass by cutting this out and lightly sand the bonding surfaces. Clean any connecting points of old and new sealant mass with Sabaclean 22. Apply the new sealing mass as described (including pretreatment).

Chemical resistance

Tested liquids:	
1	petrol for motor vehicles in accordance with NEN-EN 228 with a maximum (bio)ethanol content of 5% (v/v) in accordance with NEN-EN 15376
1a	petrol for motor vehicles compliant with NEN-EN 228 with addition of biofuel components compliant with Directive 2009/28/EC, with a maximum total content of 20% (v/v)
2	kerosene
3	extra light fuel oil in compliance with DIN 51603-1; unused motor oils; unused gearbox oils for motor vehicles; mixtures of saturated and aromatic hydrocarbons with an aromatic content of ⩽ 20% (m/m) and a flash point of >60 ° C
3b	diesel fuels compliant with NEN-EN 590 with addition of biodiesel compliant with NEN-EN 14214, with a maximum total content of 20% (v/v)
4	all hydrocarbons and mixtures containing benzene with max. 5% (v/v) benzene, except for fuels
4a	benzene and benzene-containing mixtures
4b	crude oils
4c	used motor oils and used gearbox oils for motor vehicles with a flash point of >60 °C

5	primary alcohols and polyols with max. 48% (v/v) methanol and ethanol (in total), glycol, polyglycols and monoethers and aqueous mixtures of these
5a	alcohols and glycol ethers and aqueous mixtures of these
5b	sugar alcohols and polyols ⩾C2 with max. 48% (v/v) ethanol and aqueous mixtures of these
7	organic esters and ketones, except for biodiesel
7a	aromatic esters and ketones, except for biodiesel
7b	biodiesel in accordance with NEN-EN 14214
8	aqueous solutions of aliphatic aldehydes up to 40%
8a	aliphatic aldehydes and aqueous solutions of these
9	aqueous solutions of organic acids (carboxylic acids) up to 10% and salts of these (in aqueous solution)
10	inorganic acids (mineral acids) up to 20% and acid hydrolysing, inorganic salts in aqueous solutions (pH <6), except for hydrofluoric acid and oxidising acids and salts of these
11	inorganic bases and alkaline hydrolysing inorganic salts in aqueous solutions (pH >8), with the exception of ammonia solutions and oxidising solutions of salts (e.g. hypochlorite)
12	aqueous solutions of inorganic, non-oxidising salts with a pH value between 6 and 8
13	amines and amine salts (in aqueous solution)
+	Skydrol
+	AdBlue (carbamide up to 32.5% in aqueous solution)
+	ethanol fuels E85 compliant with DIN 51625
+	32% ammonia solution

More information about specific chemicals or groups of chemicals on request.

Safety recommendations

It is very important to SABA that our products are used safely and handled responsibly. For more safety information, please refer to the relevant SABA material safety data sheet.

Contact

Our customer service department would be pleased to answer any questions you may have. Please contact your local SABA office.

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