

PRODUCT DATA SHEET

Sikalastic® Rapid-723

High-performance, rapid-setting, polymethyl methacrylate-based (PMMA) liquid resin

PRODUCT DESCRIPTION

Sikalastic® Rapid-723 is a two-component high-performance, rapid-setting, polymethyl methacrylate-based (PMMA) liquid resin. Sikalastic® Rapid-723 is combined with Fleece and cures to form a monolithic, self-flashing and self-adhering reinforced waterproofing membrane.

USES

AREAS OF APPLICATION

- New Roofs
- Reroofs
- Recovers

CHARACTERISTICS / ADVANTAGES

- UV stable, high solids and VOC-compliant
- Rapid curing and easy application provides same-day installation

APPROVALS / STANDARDS

- Factory Mutual
- Underwriters Laboratories
- Florida Building Code
- Miami-Dade County

PRODUCT INFORMATION

Chemical Base	Two-component polymethyl methacrylate (PMMA) liquid
Packaging	4.2 gallon (15.9 L) pails, 44.1 lbs (20 kg) per pail, 36 per pallet
Color	White and gray
Shelf Life	Sikalastic® Rapid-723 has a shelf life of up to 12 months in the original unopened pail when properly stored, sealed and unmixed.
Storage Conditions	Store in a tightly closed container in a cool, dry, ventilated area away from heat and oxidizing agent. Do not store in direct sunlight or in temperatures below 55°F (13°C) or above 80°F (27°C). Keep away from open fire, flame or any ignition source.
Overall Thickness	
Volatile organic compound (VOC) content	< 5 g/L

TECHNICAL INFORMATION

Testing	87 (Shore A hardness)	(ASTM D-2240)
Resistance to Static Puncture	56 lbf (249 N)	(ASTM D-5602)
Tensile Strength	60 lbf/in (10.5 kN/m) Peak Load @ 73°F (23°C), MD ¹ 55 lbf/in (9.6 kN/m) Peak Load @ 73°F (23°C), XMD ¹ 130 lbf/in (22.8 kN/m) Peak Load @ 0°F (-18°C), MD ¹ 110 lbf/in (19.3 kN/m) Peak Load @ 0°F (-18°C), XMD ¹ ¹ MD = Machine Direction, XMD = Cross Machine Direction.	(ASTM D-5147 Section 6)
Dimensional Stability	0.1%	(ASTM D-5147 Section 10)
Tear Strength	75 lbf (334 N) MD ¹ 60 lbf (267 N) XMD ¹ ¹ MD = Machine Direction, XMD = Cross Machine Direction.	(ASTM D-5147 Section 7)
Water Absorption	0.9% @212° F (100° C)	(ASTM D570)
Low Temperature Bend	-33 °F (-36.1 °C)	(ASTM D-7264)
Elongation at break	55% @ 73°F (23°C), 65% @ 0°F (-18°C), MD ¹ 85% @ 73°F (23°C), 85% @ 0°F (-18°C), XMD ¹ ¹ MD = Machine Direction, XMD = Cross Machine Direction.	(ASTM D-5147)

APPLICATION INFORMATION

Mixing Ratio	Temperature Range	Catalyst required (per liter of resin)
	50°F to 68°F (10°C to 20°C)	5 tablespoons (50 g)
	68°F to 95°F (20°C to 35°C)	2.5 tablespoons (25 g)

Coverage

APPROXIMATE COVERAGE RATES

SUBSTRATE PROFILE	BASE COAT	TOP COAT	TOTAL THICKNESS
SMOOTH	63 mils (1.6mm)	35 mils (0.9 mm)	98 mils (2.5 mm)
TYPICAL	71 mils (1.8mm)	35 mils (0.9 mm)	106 mils (2.7 mm)
SBS GRANULATED SHEET	87 mils (2.2 mm)	35 mils (0.9 mm)	122 mils (3.1 mm)
ROUGH	105 mils (2.7 mm)	35 mils (0.9 mm)	140 mils (3.6 mm)

All values are nominal. Coverage rates may vary depending on substrate conditions and the application technique. Wet and dry thicknesses are always equivalent.

Product Temperature	50°F to 86°F (10°C to 30°C)
Ambient Air Temperature	50°F to 95°F (10°C to 35°C)
Substrate Temperature	50°F to 122°F (10°C to 50°C)
Pot Life	15 to 20 minutes
Cure Time	3-6 hours
Waiting / Recoat Times	60 to 90 minutes

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

AVAILABILITY/WARRANTY

AVAILABILITY

From Sika Corporation – Roofing Authorized Applicators for use within American Hydrotech systems.

WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator in compliance with Sika requirements, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

LIMITATIONS

- Adhesion/peel tests should be performed prior to application to ensure adequate bond can be achieved.

ENVIRONMENTAL, HEALTH AND SAFETY

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surfaces must be dry, clean and free from loose particles, formwork residues, curing products, irregularities, grouts, etc. In most cases Sikalastic® Rapid

Primer ASP is required before applying Sikalastic® Rapid-723.

MIXING

Thoroughly stir the entire container of Liquid resin with a slow-speed (200 to 400 rpm) mechanical mixer (electric drill with a mixing blade) for two to three minutes before each use, and prior to pouring off resin into a second container if batch mixing. Only catalyze the amount of material that can be used within 10 to 15 minutes. Add pre-measured Catalyst Powder to the resin component, stir for 2 minutes. The amount of catalyst required is determined by resin weight and ambient temperature

APPLICATION

After mixing, apply catalyzed resin to clean and prepared substrate at the required consumption using rollers, brushes or notched squeegees. The resin should be spread evenly onto the surface using care not to spread too thin or pool in low areas.

Sale of Sika products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/about-us/terms-conditions-of-sale.html> or by calling 1-800-933-7452.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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Product Data Sheet

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