

PRODUCT DATA SHEET

Sikalastic® Rapid 724

Two-component polymethyl methacrylate-based (PMMA) liquid resin

PRODUCT DESCRIPTION

Sikalastic® Rapid 724 is a two-component polymethyl methacrylate-based (PMMA) liquid resin used in flashing applications. Sikalastic® Rapid 724 is used with Sikalastic® Rapid Fleece and cures to form a monolithic reinforced flashing membrane.

USES

Liquid resin used for flashing roofing details

AREAS OF APPLICATION

- Details that are difficult to flash with a sheet
- Angle Iron
- H-Beam / I-Beam
- Close Multiple Conduits
- Exposed Flashings
- Membrane Termination

CHARACTERISTICS / ADVANTAGES

- Compatible with Sika membranes
- High performance liquid flashing solution for complex details
- Fleece reinforced flashing system for strength and durability

PRODUCT INFORMATION

Chemical Base	Two-component polymethyl methacrylate (PMMA) liquid resin
Packaging	2.5 gallon (9.7 L) pails, 26.5 lbs (12 kg) per pail, 60 pails per pallet
Color	White and Gray
Shelf Life	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.
Volatile organic compound (VOC) content	5 g/L (Sikalastic® Rapid 724 + Sikalastic Rapid Catalyst PMMA combined)

TECHNICAL INFORMATION

Testing	70 (Shore A Hardness)	(ASTM D-2240)
Resistance to Static Puncture	56 lbf (249 N)	(ASTM D-5602)
Tensile Strength	70 lbf (12.3 kN/m) peel load @ 73°F (23°C)	(ASTM D-5147)
Dimensional Stability	0.1 %	(ASTM D-5147)
Tear Strength	80 lbf (356 N)	(ASTM D-1475)
Water Absorption	0.8%	(ASTM D-570)
Low Temperature Bend	33°F (-36.1°C)	(ASTM D-7264)
Elongation at break	55% Elongation @ peak load	(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 All working and cure times are approximate and may vary upon wind, humidity and ambient/surface temperatures
Cure Time	3 to 6 hours @ 75°F (24°C) All working and cure times are approximate and may vary upon wind, humidity and ambient/surface temperatures
Waiting / Recoat Times	60 to 90 minutes All working and cure times are approximate and may vary upon wind, humidity and ambient/surface temperatures

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 – Sika Authorized Applicators for use within Sika membrane systems.

WARRANTY

Upon successful completion of the installation 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. This product is covered under Sika Corporation warranties up to twenty (20) years in duration.

LIMITATIONS

- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.
- Must be mixed with Sikalastic Rapid Catalyst to induce curing of material. Mixing of this product with Sikalastic Rapid Catalyst may generate excess heat, USE CAUTION. Please refer to the product Safety Data Sheet (SDS) for additional information.
- Apply Sikalastic® Rapid 724 when ambient temperatures are between 50 - 95°F (10 - 35°C) and substrate temperatures are between 50 - 122°F (10 - 50°C). Product temperature should be between 50 - 86°F (10 - 30°C).
- Apply Sikalastic® Rapid 724 while ambient temperatures remain 5 degrees above the dew point.
- Do not use in applications where the surface of the detail will exceed 150°F (65°C) (e.g. hot stacks).
- Sikalastic® Rapid 724 cannot be used as a substitute where common standard membrane details are used and will provide equal to or better water tightness than the Liquid Flashing solution.
- Sikalastic® Rapid 724 cannot be used to flash a drain or

line a gutter.

- Sikalastic® Rapid 724 cannot be used where there is ponding water.
- Sikalastic® Rapid 724 cannot be used for square scuppers.
- Sikalastic® Rapid 724 cannot be used to strip in any metal edge.
- Sikalastic® Rapid 724 cannot be used in lieu of sealants, a clamping ring, and/or a reglet.
- Sikalastic® Rapid 724 cannot be used over pitch pockets.
- Sikalastic® Rapid 724 cannot be used to flash to glass or windows.
- Sikalastic® Rapid 724 cannot be used to flash onto fluoropolymer coated surfaces.
- Sikalastic® Rapid 724 cannot be used at low flashing height conditions less than 4" (101 mm).
- Sikalastic® Rapid 724 cannot be used as a patch.
- Sikalastic® Rapid 724 cannot be painted.
- Sikalastic® Rapid 724 cannot be used in waterproofing applications.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

1. All surfaces should be clean, dry, free of dirt, dust, debris, loose particles, loose paint, rust and other contaminants.
2. If the membrane is old or extremely soiled, use Sika approved cleaner to restore the membrane to a 'like new' condition before applying Sikalastic® Rapid 724.
3. Clean and prepare metal surfaces to near white metal in accordance with SSPC-SP3 (power tool clean). If power tools are not available, use abrasive paper with a grain size of 20 to 40 to remove all loose particles including paint flakes and rust.
4. Grind concrete and masonry surfaces with diamond cup wheel to remove laitance and contaminants.
5. Lightly sand rigid PVC and plastic surfaces. Extend

surface preparation a minimum of 1/8" (3 mm) beyond the termination of the flashing.

6. Wipe metal surfaces with Sika approved cleaner and allow to dry.
7. For repairs or touch-up, wipe previously installed Liquid Flashing with Sika approved cleaner to clean and reactivate the Liquid Flashing and allow to dry.
8. Prime wood and concrete surfaces with Sikalastic Rapid Primer. Allow Sikalastic Rapid Primer to dry to the touch before applying Sikalastic® Rapid 724.
9. If a gap of more than 1/4" (6.3 mm) exists between edge of horizontal membrane surface and vertical transition surface, the gap must be filled with Sikaflex®-1a.

APPLICATION

1. Pre-cut Sikalastic Rapid Fleece to fit around the penetration. Vertical flashing pieces must extend 2" (51 mm) from the base onto the horizontal and horizontal flashing pieces must extend 8" (20.3 cm) out from the base of any penetration. Flashing height should be a minimum of 8" (20.3 cm). Horizontal Sikalastic Rapid fleece pieces must extend a minimum of 8" (20.3 cm) beyond the leading edge of the penetration, or a minimum of 4" (10.2 cm) beyond the edge of the fastening plate. Add 2" (51 mm) for the overlap with adjoining pieces.
2. Once the edges of the fleece are determined, mark a line on the membrane 1/2" (13 mm) beyond the edge of the fleece and apply painter's tape. This will accommodate the 1/2" (13 mm) of non-reinforced Sikalastic® Rapid 724 needed to terminate to the membrane.
3. With the tape in place, clean the membrane within the area using Sika approved cleaner including the plates and the penetration.
4. Thoroughly stir the entire container of Sikalastic® Rapid 724 with a slow-speed (200 to 400 rpm) mechanical mixer (electric drill with a mixing blade) for two minutes.
5. Pour 1 liter of Sikalastic® Rapid 724 into a clean plastic container. Add Sikalastic Rapid Catalyst to Sikalastic® Rapid 724 at rates depending on ambient temperature (see Mixing Rates table). Mix using a slow-speed mechanical mixer with a separate mixing paddle for two minutes. Once mixed, the pot life is approximately 10 - 15 minutes depending on the ambient temperature.
6. Using a small 1/2" (13 mm) nap roller with rounded edges or 2" (51 mm) disposable paint brush apply catalyzed Sikalastic® Rapid 724 at the required

consumption onto the penetration up to the finished flashing height and 2" (51 mm) onto the roof membrane.

7. Embed the pre-cut vertical Sikalastic Rapid Fleece into the wet Sikalastic® Rapid 724. Use the roller or brush to eliminate wrinkles and air bubbles while completely saturating the Sikalastic Rapid Fleece. Apply additional catalyzed Sikalastic® Rapid 724 at the 2" (51 mm) overlap between the vertical Sikalastic Rapid Fleece layers.
8. Apply catalyzed Sikalastic® Rapid 724 at the required consumption onto the roof membrane extending slightly onto the painter's tape. Also coat the 2" (51 mm) fingers from the vertical Sikalastic Rapid Fleece.
9. Embed the pre-cut horizontal Sikalastic Rapid Fleece into the wet Sikalastic® Rapid 724. Use the roller or brush to eliminate wrinkles and air bubbles while completely saturating the Sikalastic Rapid Fleece. Apply additional catalyzed Sikalastic® Rapid 724 at the 2" (51 mm) overlap between the horizontal Sikalastic Rapid Fleece layers.
10. Apply catalyzed Sikalastic® Rapid 724 at the required consumption over the entire exposed vertical and horizontal Sikalastic Rapid Fleece terminating at the finished flashing height on the vertical and onto the painter's tape on the roof. Make sure the fleece is fully saturated without any dry spots.
11. Remove the painter's tape immediately after applying the final layer of catalyzed Sikalastic® Rapid 724.

Note:

Complex and/or irregular shapes including nuts, bolts, etc. may require an additional layer of catalyzed Sikalastic® Rapid 724 to ensure full coverage. Wait one hour before applications. For repairs or touch-up, wipe cured Sikalastic® Rapid 724 with Sika approved cleaner to clean and allow to dry.

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.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

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Product Data Sheet

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