



5020 Enterprise Parkway
Seville, OH 4427
1-800-992-1053

ElastiKote[®] 100 Sprayable Mastic

Rev. 12-12-17
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DESCRIPTION

ElastiKote[®] 100 Sprayable Mastic is a flexible, high performance, watertight, puncture resistant ready-to-use single component fluid-applied styrene ethylene butylene styrene (SEBS) liquid membrane. ElastiKote 100 Sprayable Mastic is used in various restoration and waterproofing liquid applied membrane applications. ElastiKote 100 Sprayable Mastic is designed and specifically formulated for expedient and efficient spray application. The product incorporates high performance micro-fiber reinforcement technology to maximize strength and durability properties. When spray applied, ElastiKote 100 Sprayable Mastic will mold into a strong, monolithic, self-flashing and reinforced waterproofing membrane to be utilized in roofing restoration applications and repairs on such substrates as:

EPDM	Granular surfaced SBS modified bitumen	Hypalon [®]	APP	KEE (Elvaloy [®])
PVC	Smooth Surfaced Asphalt BUR	Galvanized metal	Kynar [®]	Plywood
TPO	Smooth Surfaced Coal Tar Pitch BUR	Spray Polyurethane Foam		Concrete

ElastiKote 100 Sprayable Mastic can be utilized in the following applications:

- Metal roofs (reinforced and non-reinforced), at vertical seams, fastener heads, penetrations, flashings (less than 90° angle changes), and as necessary
- Restoration repair and reinforcement of expansion joints, transitions, and curbs (less than 90° angle changes),
- Repairs (reinforced as necessary)
- Flashings (reinforced)
- Seam repair (reinforced and non-reinforced)
- Filling in of asphalt patch dehydration cracks (aka Alligatoring)
- Buildup of uneven surfaces – slope for drains

ElastiKote 100 Sprayable Mastic is almond in color and is available in 5–gallon re-sealable pails or 50–gallon (net by weight) drums. ElastiKote 100 Sprayable Mastic is manufactured in our ISO 9001:2008 Registered facility located in Seville, Ohio.

TECHNICAL INFORMATION

Physical Properties

Viscosity (cps).....	19,000 +/- 500
Odor.....	Low aromatic (masked)
Density at 77° F.....	8.0 lb/gal +/- 0.5
Application.....	Spray (preferred method) , roller or brush
	24 – 28 sq ft/ gal
Coverage.....	Approximately 80 linear ft/gal of 4" wide BAND @ 42 mils thickness depth depending on substrate. 80 linear ft/gal for vertical seams on metal roofs. Fastener en- capsulation rate at approx. 250 individual units per gallon with a spray dollop on each unit

Preparation of Seams & Fasteners



ElastiKote® 100 Sprayable Mastic

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Filling in Asphalt Dehydration Cracks “Alligating” of BUR Roof



Brush Application Method



Roof Restoration–Project Overview

For specific detailed information refer to the Elastikote material substrate specification.

Storage and Handling

Maintain materials in their original unopened containers with all labels intact and legible. Shelf life is 2 years in original unopened containers. Storing containers above the recommended temperatures (i.e., exposure to direct sunlight) may reduce the products' shelf life. The resin may polymerize at temperatures above 140°F (60°C). **Store in areas where maximum temperature does not exceed 90°F and at a minimum of 40°F. KEEP OUT OF REACH OF CHILDREN. KEEP AWAY FROM FLAME OR ANY OTHER SOURCE OF IGNITION.** For additional safety & health information, refer to the MSDS for this product.

Roof Inspections

Inspections may include a pre-application technical field evaluation for determination of the acceptability of the substrate. An adhesion test may be required to ensure compatibility with the existing substrate. At the conclusion of the project a final inspection may be conducted.

Applicator Qualifications

All Elastikote certified applicators are thoroughly trained by the Manufacturer in all aspects of use and application of materials. Certification credentials are issued upon completion of training activities.

Surface Preparation

Surface must be dry, clean, and free from dirt, loose rust and foreign substances. Certain surfaces may require power washing and wire brushing to remove loose mill scale, biomass, expended paint or coatings, corrosion or any other loose or foreign particulate. Certain surfaces may require abrading, scraping, or pickling to ensure proper adhesion. Certain surfaces must be primed and cleaned with use of a special cleaner. Existing target surface will dictate need for implementation of abrading and priming procedures.

Tools & Equipment

Follow personal protective equipment requirements as listed on material MSDS. Utilize appropriate OSHA safety equipment. Drum and/or pail 4" wide heat bands or heat exchanger, wet mil gauge, infrared thermometer, digital moisture meter, and paddle type mixer are required. Use smooth-medium (1/4" - 3/8" nap) roller if rolling. Spray application is the preferred method for all sprayable materials. Use a Graco 733, Graco 833, or similar (3 gpm output & displacement pump of 3500 psi) equipment with appropriate tips. Recommend use of 1/2" hose and 3/8" whip. Use tarpaulins or other durable materials to protect adjacent areas from damage.

Application

Apply product using appropriate spray equipment (preferred method) or product may be rolled with a smooth-medium nap roller or soft brush at ambient temperatures above 40°F (4°C). Remove all filters from spray unit or spray guns. Use heavy-duty (XHD) tips without a diffuser or atomizer bar. Tip sizes range from 441 to 447, 541 to 547 and 641 to 647. Tips may need to be adjusted depending on slope and product. Hold spray wand during application no higher than 12 inches from target substrate with 50% overlap and allow product to “FLOW” AND “SELF-LEVEL”. Always spray at a straight “up and down” or 90° angle to enhance performance. There are certain exceptions to this rule such as for standing and vertical seam application. Always remix product after any application work stoppage of 20 minutes or more to ensure critical additive products stay in suspension.

Repairs

For blisters, extreme membrane separation (greater than 3/16") or severely damaged repair areas, utilize Elastikote 100 Sprayable Mastic and a high performance polyester fleece scrim.

ElastiKote® 100 Sprayable Mastic

Material Preparation

To maximize product performance and ease of application, always heat product to a temperature range of between 80°F and 130°F with 4" wide heat bands or heat exchanger, it is especially important to heat product to ensure proper viscosity for maximum performance of applied product in both warm and cold weather. Attempting to spray ElastiKote 100 Sprayable Mastic at the low end of the temperature range of around 100°F has been found to result in "webbing". Typical minimum ElastiKote 100 Sprayable Mastic temperature for spraying is greater than 100°F.

Material Heating Guide

ElastiKote 100 Sprayable Mastic												
*Application temperature (top)												
**Target substrate temperature (bottom)												
*130	115	110	105	80								
**40	50	60	70	80	90	100	110	120	130	140	150	160 170

To work efficiently, keep two or three 5-gallon pails or two 50-gallon drums heating and/or stirring ahead of crew. Heating a 5-gal pail from 70°F to 130°F with one 4" wide heat band on max (#10 setting) should take approximately 25 minutes. Heating a 50-gallon drum from 70°F to 130°F when using a heat exchanger should take between 35 – 45 minutes. Heating a 50-gallon drum from 70°F to 130°F with two 4" wide bands heaters on max (#10 setting) should take approximately 50 – 60 minutes.

Stir entire heated material container (summer & winter) thoroughly prior to application. Always mix (stir) from bottom to top using a paddle type mixer at a minimum of 20 minutes for a 50-gallon drum and 5 minutes for a 5-gallon pail. Be diligent that paddle sweeps actual bottom of container. Do not over mix (or allow air bubbles) as this will result in pinholes. Spray pump cavitation caused by suction leaks (or from worn seals) will also allow air into the product causing pinholes. To best work efficiently, keep two or three 5-gallon pails or two 50-gallon drums heating and/or stirring ahead of crew.

Determine "on-site" the proper temperature. Selection will be impacted by existing ambient air temperature, target roof substrate temperature, specific roof slope and size, and type of selected spray pump and spray tip to be used. Always synchronize the heating process of the material to be installed with target substrate temperature. When target substrate is equal (very hot during the summer) or in excess of product application temperature, always adjust the product application temperature before application. If applied product becomes too hot from the combination of preparation heating and exposure to extreme heat of target substrate, the product will run or "sag" resulting in low and unacceptable millage thickness. Conversely, if the product is not heated sufficiently and is applied at too low a temperature, the spray pattern will result in the phenomena known as "webbing" or "fingering" and the product will not self-level.

Apply an even base coat of Mastic product then place the scrim in wet liquid mastic. Remove all voids, wrinkles, fish-mouths, trapped air, etc. and immediately, while wet, apply a top coat of ElastiKote 100 Sprayable Mastic to encapsulate the scrim. When utilizing reinforcement scrim, the mastic should be applied to a 1/8" thickness and extended a minimum of 1" beyond the scrim edge.

Minimum Suggested Coverage Rate

Surface dictates actual rate. Refer to guidelines in the ElastiKote material substrate specification.

To minimize ozone and UV radiation degradation, apply a coating of ElastiKote 100 (or other ElastiKote topcoat product).

Apply in one coat at a minimum of 42 wet mils per coat (1.0 gallons per 24 – 28 sq ft) for low slope surfaces.

Substrate may dictate more than one coat due to severity (i.e., Alligatoring).

This results in a finished coating @ a minimum of 21 dry mils.

Approximately 80 linear ft/gal for vertical seams on metal roofs. Fastener en-capsulation rate at approx. 250 individual units per gallon with a spray dollop on each unit.

Vertical surfaces typically take two coats @ 42 wet mils each.

One 5-gallon pail covers 120–140 sq ft in one coat per above. One 50-gallon drum covers 1,200–1,400 sq ft in one coat per above.

Drying Time

Minimum dry time of 4–6 hours (typical) before recoating in optimal weather conditions. Anticipate a longer drying time in non-optimal weather conditions. Do not allow any flexing or foot traffic for at least 24 hours or curing mastic may rupture.

Clean-Up

Clean equipment, brushes, rollers, and tools using mineral spirits.

Coating Fastener Heads



All Metal Fasteners
Must be "Dolloped"
Always use SEBS Mastic
Prior to Coating Application
(NO EXCEPTIONS)