



Elastikote®
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Rev. 7-12-17

1 of 4

DESCRIPTION

ElastiKote® 5000 is an environmentally responsible low VOC, flexible, high performance, watertight, puncture resistant ready-to-use single component fluid-applied styrene ethylene butylene styrene (SEBS) liquid resin used in the restoration of roof substrates such as:

EPDM	PVC	Hypalon®	Spray Polyurethane Foam	Smooth Surfaced Asphalt BUR
TPO	Concrete	Galvanized Metal	Plywood	
APP Mod-Bit Granule	Aluminum	Smooth Surfaced Coal Tar Pitch BUR	Granular Surfaced SBS Modified Bitumen	

Although Elastikote 5000 can be used on asphalt roof substrates, the recommended protocol is Elastikote Select Primer followed by Elastikote 5000. For further information refer to those Product Data Sheets. Elastikote 5000 having a Solar Reflective Index of 107 enables the owner to maximize energy savings. To promote long lasting protection, Elastikote 5000 is formulated to minimize ozone and UV radiation degradation vulnerability. Elastikote 5000 is available in white, black, silver, light gray, clear, and custom colors in 5-gallon pails or 50-gallon (net by weight) drums.

PRODUCT CERTIFICATIONS Elastikote LLC Certification



ElastiKote 5000 is classified by Underwriters Laboratories Inc. to ANSI/UL790 Test for Fire Resistance of Roof Coating Materials



The Cool Roof Rating Council lists Elastikote 5000.



ElastiKote 5000 is California Title 24 Compliant.



ElastiKote 5000 is Energy Star listed and far exceeds the LEED® Solar Reflective Index (SRI) requirement.



Registered to ISO 9001:2008

ElastiKote 5000 is manufactured in our ISO 9001:2008 Registered facility located in Seville, Ohio. ISO 9001 is an International Quality Standard.

TECHNICAL INFORMATION

Unless otherwise stated, results below are per California 2008 Building Energy Efficiency Standards Table 118-B Colors not guaranteed against color shift.

Physical Properties	[Requirement]
Physical State	Viscous liquid
Volatile Organic Content (g/l)	< 50
Viscosity @ 77°F cps	5,000 +/- 500
Solar Reflectance Index (white only)	107 [≥ 82]
Initial Solar Reflectivity	0.85 [≥ 0.70]
Initial Thermal Emittance	0.90 [≥ 0.75]
Shelf Life (in unopened container)	2 Years
Initial Performance Properties – CA Title 24 Table 118-B	
	[Requirement]
Initial Percent Elongation (break) (%)	1044 [≥ 200]
Initial Tensile Strength (psi)	1123 [≥ 100]
Initial Flexibility	Pass

ElastiKote® 5000

Permeance, perms	1.5	[≤ 50]
Final Performance Properties After 1000 Hours Accelerated Weathering		
Final Percent Elongation (break) (%)	962	[≥ 100]
Final Flexibility (Pass/Fail)	Pass	
Appearance after 1000 hrs accelerated weathering	Pass	[no cracking]

Unless otherwise stated, results shown below are per ASTM D 6083 laboratory testing (if not shown above as part of Table 118-B)

¹Tested as standard two-coat protocol. ²Tested with ElastiKote 5000 refer to the ElastiKote 5000 SB & XP Product Data Sheets for recommended protocol results.

FILM PROPERTIES		[Requirement]
Initial Percent Elongation (break) (%)	¹ 486.5	[≥ 200]
Initial Tensile Strength (psi)	¹ 1663	[≥ 100]
Permeance, perms	¹ 0.244	[≤ 50]
Wet Adhesion to Aluminum, pli	6.91	[≤ 2.0]
Wet Adhesion to Concrete, pli	7.96	[≤ 2.0]
Wet Adhesion to EPDM, pli	3.3	[≤ 2.0]
Wet Adhesion to Galvanized Metal, pli	2.7	[≤ 2.0]
Wet Adhesion to Hypalon, pli	2.19	[≤ 2.0]
Wet Adhesion to ISO Insulation Board, pli	5.04	[≤ 2.0]
Wet Adhesion to Plywood, pli	2.1	[≤ 2.0]
Wet Adhesion to PVC, pli	7.6	[≤ 2.0]
Wet Adhesion to SPUF, pli	2.8	[≤ 2.0]
Wet Adhesion to TPO, pli	16.3	[≤ 2.0]
Wet Adhesion to Granular Surfaced SBS Modified Bitumen, pli	² 3.2	[≤ 2.0]
Wet Adhesion to Smooth Surfaced Asphalt BUR, pli	² 2.3	[≤ 2.0]
Wet Adhesion to Smooth Coal Tar Pitch BUR, pli	² 2.4	[≤ 2.0]
Water Swelling, (% mass)	1.6	[≤ 2.0]
Fungi Resistance, rating	0	
Tear Resistance (lbf/in)	222.8	[≥ 60]
Weight Gain of Block (lb)	0.0	[< 0.2]
FILM PROPERTIES AFTER 1000 HOURS ACCELERATED WEATHERING		
Final Percent Elongation (break) %	486.5	
Accelerated Weathering 1000 hrs	Pass, No cracking or checking	
Low Temperature Flexibility	Pass	
Wind Driven Rain	Pass	

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. Store containers on pallets in a covered or protected area. **Store in areas where maximum temperature does not exceed 90°F and at a minimum of 40°F. Never store drums in an open environment without using proper protective moisture proof covering as condensation or rain, under certain conditions, may infiltrate and contaminate the drum contents through the “bung” and ring areas. 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.

Material Preparation

All ElastiKote 5000 topcoats/basecoats must be properly heated and stirred prior to either spray or roller application. To maximize product performance and ease of application, always heat the product to a temperature range of between 80°F and 120°F with 4” wide heat bands or heat exchanger. When using spray type application methods, 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 5000 at the low end of the temperature range of around 90°F has been found to result in “webbing”. Typical minimum ElastiKote 5000 temperature for spraying is greater than 90°F. Spray

ElastiKote® 5000

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 target 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 starting @ range up to 3750–4000 psi for metal and decreasing psi depending on substrate and/or conditions. Utilize 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 cleaned and primed with a Manufacturer approved product. 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 a 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, (3 gpm output & displacement pump of 3500 psi) or similar equipment with appropriate tips. Recommend use of 1/2" hose with 3/8" whip. Use tarpaulins or other durable materials to protect adjacent areas from damage.



Material Preparation–Cont.

pump cavitation caused by suction leaks (or from worn seals) will allow air into the product causing pinholes. It is acceptable to install product at 80°F when using roller or brush applications.

Material Heating Guide

*ElastiKote 5000 application temperature (top)													
**Target substrate temperature (bottom)													
*120	110	100		95		90		85		80			
**40	50	60	70	80	90	100	110	120	130	140	150	160	

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 100°F with one 4" wide heat band on max (#10 setting) should take approximately 10 minutes. Heating a 50–gallon drum from 70°F to 100°F when using a heat exchanger should take between 20 – 30 minutes. Heating a 50–gallon drum from 70°F to 100°F with two 4" wide bands heaters on max (#10 setting) should take approximately 30 – 40 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.

Determine "on site" the proper application *temperature* for efficient and quality assuring best practice product installation. Temperature selection can vary. Selection will be impacted by existing ambient air temperature, target roof substrate temperature, specific roof slope and size, and the type and size 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 the product application temperature, always adjust the product 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.

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 625 to 633 and 725 to 733. 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. Always remix product after any application work stoppage of **20 minutes or more** to ensure critical additives stay in suspension.

ElastiKote® 5000

4 of 4

Minimum Suggested Coverage Rate

Target surface dictates actual rate. Refer to guidelines in the Elastikote material substrate specification.

Apply in **two** coats at a minimum of 21 wet mils per coat (1.5 gallons per 100 sq ft per coat) for low slope surfaces.

The combined two (2) coats result in a finished coating @ a minimum of 21 dry mils.

Vertical surfaces typically take 3 coats @ 14 wet mils per coat to properly build final millage.

One five-gallon pail covers 166 sq ft in two coats per above. One 50-gallon drum covers 1,666 sq ft in two coats per above.

Drying Time

2–4 hours (typical) in optimal weather conditions before recoating.

4–6 hours (typical) in non-optimal weather conditions before recoating.

Clean-Up

Clean equipment, brushes, rollers, and tools using Regular Mineral Spirits.

