



# PRODUCT DATA SHEET

## ElastiKote® 1000

5-8-2012  
1 of 4

### DESCRIPTION

ElastiKote® 1000 is a flexible, high performance, watertight, puncture resistant ready-to-use single component fluid-applied styrene ethylene butylene styrene (SEBS) liquid resin used in restoration of roof substrates such as:

|      |  |                         |                |
|------|--|-------------------------|----------------|
| EPDM | Granular Surfaced SBS Modified Bitumen | Hypalon®                | KEE (Elvaloy®) |
| PVC  | Smooth Surfaced Asphalt BUR            | Galvanized Metal        | Plywood        |
| TPO  | Smooth Surfaced Coal Tar Pitch BUR     | Spray Polyurethane Foam | Concrete       |

ElastiKote 1000, having a Solar Reflective Index of 108, enables the owner to maximize energy savings. To promote long lasting protection, ElastiKote 1000 is formulated to minimize ozone and UV radiation degradation vulnerability. ElastiKote 1000 is available in white, black, silver, light gray, clear and custom colors in 5-gallon re-sealable pails or 50-gallon (net by weight) drums. ElastiKote 1000 is manufactured in our ISO 9001:2008 Registered facility located in Smithville, Ohio.

### PRODUCT CERTIFICATIONS



ElastiKote 1000 is classified by Underwriters Laboratories Inc. to ANSI/UL 790 Tests for Fire Resistance of Roof Coating Materials.



The Miami-Dade County Product Control Division has issued an NOA for ElastiKote 1000. ElastiKote 1000 is registered in the Florida Building Code list of Approved Products.

ElastiKote 1000 is registered in the Florida Power & Light list of Building Envelope Reflective Roofing Approved Technologies for their residential and commercial rebate programs.

ElastiKote 1000 white far exceeds the LEED® Solar Reflective Index (SRI) requirement.



**ElastiKote 1000 White is CRRC & ENERGY STAR® listed**

[www.elastikote.com](http://www.elastikote.com)

Toll free (800) 992-1053

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# PRODUCT DATA SHEET

## ElastiKote® 1000

5-8-2012  
2 of 4

- ElastiKote 1000 is listed in the Texas Department of Insurance listing of Products Qualifying for Impact Resistance Roofing Credits. ElastiKote 1000 @ 21 dry mils (inclusive of reinforcement scrim and without scrim) passed Class 4 (most severe) UL 2218 Impact Resistance of Prepared Roof Covering Materials.
- ElastiKote 1000 is listed in the Texas Department of Insurance listing for Product Evaluation – Roof Coverings, Liquid Applied Roofing and Waterproofing Systems. ElastiKote 1000 @ 21 dry mils (inclusive of reinforcement scrim) passed UL 580 Tests for Uplift Resistance of Roof Assemblies. ElastiKote 1000 passed at 318.5 psf. This test simulates hurricane force winds from above and below the roof deck.

### TECHNICAL INFORMATION

Unless otherwise stated, results are per ASTM D 6083 laboratory testing

<sup>1</sup>Fully cured sample per laboratory testing

\* Colors not guaranteed against color shift

| PHYSICAL PROPERTIES   |                          |
|---|--------------------------|
| Physical State  | Viscous liquid           |
| Viscosity @ 77° F, cps                                      | 5,000 +/-500             |
| VOC   | < 250 g/l                |
| Solar Reflectance Index (white only)                        | 108                      |
| FILM PROPERTIES   |                          |
| Initial Tensile Strength @ 73° F, psi                       | 1502                     |
| Tear Resistance lb/in                                       | 208                      |
| Initial Elongation @ @ 73° F, %                             | 1069 (2 weeks cure time) |
| Initial Elongation @ @ 73° F, % fully cured                 | <sup>1</sup> 1240        |
| Permeance, perms  | 2.7 (2 weeks cure time)  |
| Permeance, perms, fully cured                               | <sup>1</sup> 0.08        |
| Water Swelling, Mass %                                      | 0                        |
| Wet Adhesion to galvanized metal, pli                       | 6.1                      |
| Wet Adhesion to concrete, pli                               | 7.5                      |
| Wet Adhesion to Spray Polyurethane Foam, pli                | 3.4                      |
| Wet Adhesion to EPDM, pli                                   | 3.4                      |
| Wet Adhesion to granular surfaced SBS Modified Bitumen, pli | 5.4                      |
| Wet Adhesion to PVC, pli                                    | 6.8                      |
| Wet Adhesion to TPO, pli                                    | 10.5                     |
| Wet Adhesion to Hypalon, pli                                | 7.0                      |
| Wet Adhesion to smooth surfaced asphalt BUR, pli            | 2.8                      |
| Wet Adhesion to Plywood, pli                                | 2.2                      |
| Wet Adhesion to smooth surfaced Coal Tar Pitch BUR, pli     | 2.5                      |
| Wet Adhesion to KEE, pli                                    | 2.1                      |
| Fungi Resistance, rating                                    | 0                        |
| FILM PROPERTIES<br>AFTER 1000 HOURS ACCELERATED WEATHERING  |                          |
| Elongation @ 73° F, %                                       | 1029                     |
| Low Temperature Flex  | Pass                     |
| Appearance after 1000 hrs accelerated weathering            | Pass                     |
| Wind Driven Rain  | Pass                     |

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# PRODUCT DATA SHEET

## ElastiKote® 1000

5-8-2012  
3 of 4

### 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 shaded 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.

### 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.

### Contractor Qualification

All contractors installing ElastiKote materials 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. All fasteners must be checked and tightened (or properly replaced). All termination bars, including fastener heads, must be coated with an ElastiKote Mastic (1000 SEBS, 1000 Labor Sav 'R, or 1000 Sprayable Mastic). Spun-laced high performance polyester reinforcement scrim is to be used at change of plane junctures, penetrations, curbs, projections, repairs, and seams with a coating of 1000 SEBS mastic or 1000 Sprayable mastic. Labor Sav 'R Mastic may be an acceptable alternative on a case-by-case basis with Manufacturer approval.

### Material Heating Guide

|   |            |            |           |           |           |            |            |            |            |            |            |            |           |
|---|------------|------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|
| <b>*ElastiKote 1000 application temperature (top)</b> |            |            |           |           |           |            |            |            |            |            |            |            |           |
| <b>**Target substrate temperature (bottom)</b>        |            |            |           |           |           |            |            |            |            |            |            |            |           |
| <b>*120</b>   | <b>110</b> | <b>100</b> |           |           |           | <b>95</b>  |            | <b>90</b>  |            |            | <b>85</b>  |            | <b>80</b> |
| <b>**40</b>   | <b>50</b>  | <b>60</b>  | <b>70</b> | <b>80</b> | <b>90</b> | <b>100</b> | <b>110</b> | <b>120</b> | <b>130</b> | <b>140</b> | <b>150</b> | <b>160</b> |           |

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. 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. If in doubt, always contact Manufacturer.

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 drum. Do not over mix or allow cavitation of product (make bubbles), as air entrainment will result in pinholes.

To best 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 require approximately 10 minutes plus an additional 5 minutes to mix. 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.



# PRODUCT DATA SHEET

## ElastiKote® 1000

5-8-2012  
4 of 4

### 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; infrared thermometer, wet mil gauge, and paddle type mixer are required. 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. Use a smooth-medium nap roller or soft brush if not spraying. Use tarpaulins or other durable materials to protect adjacent areas from damage.

### Application

Prior to application, always ensure the target substrate is totally dry with no ice, dew, frost or any other type of moisture present. Priming may be needed. Always refer to guidelines in the Elastikote material substrate specification.

All Elastikote 1000 topcoats/basecoats must be properly heated and stirred prior to either spray or roller application methodology. 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 methodology, 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 1000 at the low end of the temperature range of around 80° F has been found to result in "webbing". Typical minimum Elastikote 1000 temperature for spraying is 90° F. It is acceptable to install product at 80° F when using roller or brush applications procedures.

### ElastiKote® 1000 Part Numbers

|             |                         |
|-------------|-------------------------|
| 10-RF-WH-05 | White 5.0 gal pail      |
| 10-RF-WH-50 | White 50 gal drum       |
| 10-RF-BL-05 | Black 5.0 gal pail      |
| 10-RF-BL-50 | Black 50 gal drum       |
| 10-RF-SI-05 | Silver 5.0 gal pail     |
| 10-RF-SI-50 | Silver 50 gal drum      |
| 10-RF-LG-05 | Light Gray 5.0 gal pail |
| 10-RF-LG-50 | Light Gray 50 gal drum  |

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 additive products stay in suspension.

### 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.

### 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.