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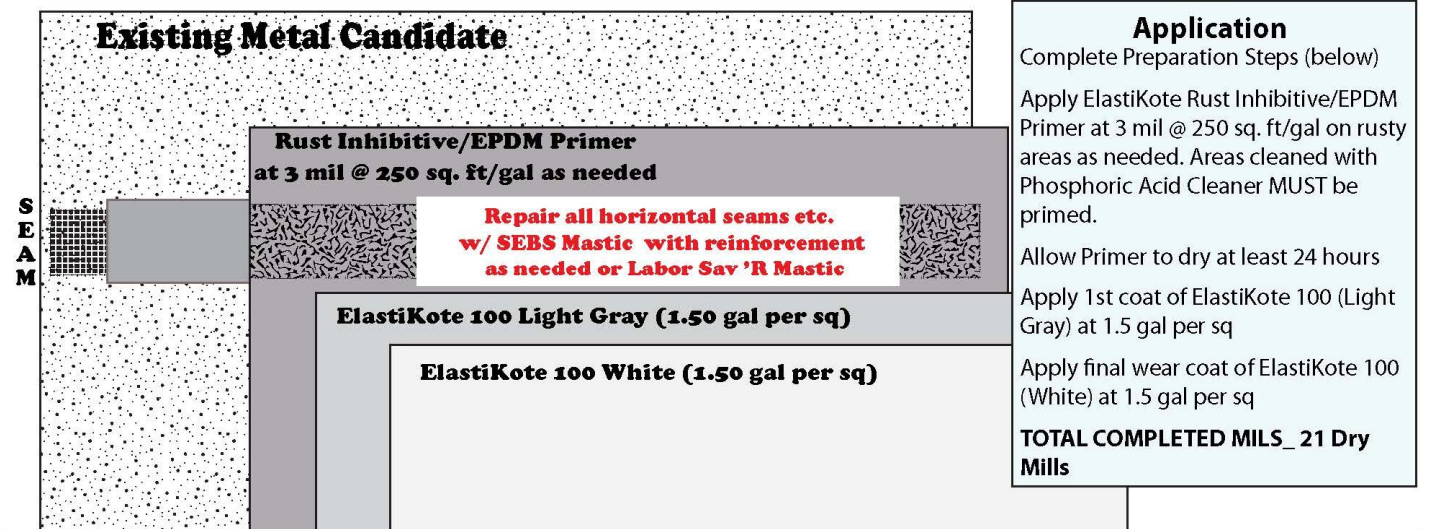
Section 07540

METAL ROOF SPECIFICATION

ElastiKote® Series 100 Fluid Applied Membrane

Material Only_5 yr Warranty

ELASTIKOTE® RESTORATION PROTOCOL: METAL
ElastiKote 100 **5 Year Warranty**



Preparation

Utilize a power washer in a range of 3750–4000 psi. Utilize wire brushing to remove loose mill scale, biomass, expended paint or coatings, corrosion or any other loose or foreign particulate.

Clean greasy areas as needed with Elastikote Substrate Cleaner. Use Elastikote Phosphoric Acid Cleaner on any remaining rust.

Surface must be dry, clean, and free from dirt, loose rust and foreign substances.

Any remaining aluminized asphalt or asphalt bitumen coatings are to be coated with Elastikote 100 SB silver @ 1.5 gal per sq.

All vertical seams and/or fasteners must be inspected and sealed with 100 SEBS Mastic or 100 Sprayable mastic. All horizontal seams must be inspected and sealed with SEBS mastic and scrim or Labor Sav 'R mastic is acceptable for horizontal seams when seam separation does not exceed 3/16 inch.

All penetrations etc. must be inspected, prepared & sealed. For penetrations that are a maximum of 3/16" wide or less, it is acceptable to properly seal such physical details using Elastikote Labor Sav 'R mastic applied at a minimum thickness of 3/16" and a minimum width of 4" wide

To the best of our knowledge and subject to change without prior notice, the technical values or data contained herein is true and accurate as of the date of issuance. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by our in-house and independent third party labs for the purpose approval and/or classification. Acceptance, purchase and selection of these products are the sole responsibility of the buyer, buyer's agent or buyer's customer. Elastikote, LLC assumes no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER GUARANTY OR WARRANTY OF ANY KIND IS MADE BY ELASTIKOTE, LLC, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



Environmentally Responsible

LIQUID MEMBRANE SYSTEM

Roof restoration utilizing a high performance fluid-applied SEBS liquid elastomeric non-reinforced membrane system.

PART 1 - GENERAL

1.01 SUMMARY

- A. This specification is for a high performance two (2) coat non-reinforced fluid applied membrane system applied over approved METAL substrates. The ElastiKote® 100 system is a single component cold-applied liquid SEBS resin. The system is generally not reinforced except for certain critical areas which shall have polyester reinforcement scrim added and/or an ElastiKote® Mastic grade product.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 04200 Masonry
- B. Section 06114 Wood Blocking and Curbing
- C. Section 07600 Sheet Metal
- D. Section 15430 Plumbing Specialties

1.03 DEFINITIONS

- A. Roofing Terminology: Refer to the following publications for terms related to roofing work not otherwise defined in this section.
1. ASTM D 1079: Definitions of terms related to roofing, waterproofing, and bituminous materials
 2. NRCA Roofing and Waterproofing Manual
 3. Roof Consultants Institute Glossary of Terms
 4. Factory Mutual Research Corporation
 5. Underwriters Laboratories

1.04 SUBMITTALS

- A. Provide four (4) cured samples of the membrane showing the completed thickness and colored finish layer AS APPLICABLE.
- B. Provide samples of the owner's or owner representative's approved color.
- C. Submit four (4) copies of the manufacturer's current published installation instructions, product data sheets and Material Safety Data Sheets.
- D. Certifications:
1. Manufacturer's written certification that installer is approved and licensed to install specified roofing system.
 2. Manufacturer's affidavits that materials used in Project contain no asbestos.
 3. Installer shall submit resume and project experience list for proposed system for Project Manager and job site superintendent.
 4. Installer shall submit list of all subcontractors with evidence of subcontractor's insurance coverage in compliance with contract requirements.
 5. Submit certification that the materials to be used meet these specifications and are acceptable for use with the field membrane system and for the surfaces that they are to be applied.
 6. Manufacturer's written certification of approval / acceptance of these specifications and details.
 7. Warranty: Submit letter from manufacturer signed by agent authorized to do so, stating acceptance of warranty as specified and detailed.
 8. Underwriters Laboratory product certification
 9. Manufacturer's ISO 9001:2008 certification (letter of ISO compliance is not acceptable)
- E. Shop Drawings:
1. Provide manufacturer's details for the application of the ELASTIKOTE LLC products meeting the requirements of the warranty.
 2. Furnish shop drawings for all proposed details different from manufacturers' standard details. Details shall be approved in writing by roofing manufacturer.



3. Furnish detailed project sequencing, staging, material loading, manpower plans, and project construction schedule for approval.

F. Warranty:

1. Submit four (4) copies of the Manufacturer's standard 5-Year warranty covering only manufacturer's materials installed by contractor.
2. Submit four (4) copies of Contractor's Guarantee covering all work for defects in workmanship and labor for a period of 2 years.
3. Maintenance Procedures: Four (4) copies of manufactures' printed instructions for Owner's use regarding care and maintenance of roof.

1.05 INSPECTIONS

- A. The Owner's and Manufacturers' representative shall at all times have access to the job site and work area. The contractor shall provide proper and safe facilities for such access and inspection.

Specification Note: Contractor is required to maintain best roofing practices applicable to roof perimeter safety delineation and warnings apparatus stanchion placement. Contractor is also required to actively enforce and maintain perimeter protection and fall prevention protection as per OSHA requirements at all times.

1. Manufacturer Inspections:

- a. Material manufacturer (manufacturer) shall reserve the right to have an inspection performed by a representative of the manufacturer at any time and at sole discretion of the manufacturer. Such inspections may consist of pre-construction determination of acceptability of substrate for commencement of installation activities, through and including conclusion of installation work, to ensure that said project is properly installed in accordance with the manufacturer's specifications, installation protocol, and illustrated details.
- b. At the conclusion of the project, and prior to the issuance of a warranty, a final inspection shall be conducted by a representative of the material manufacturer to provide assurance that said project is installed in accordance with the manufacturer's specifications and illustrated details and the project is eligible for the issuance of warranty protection to the owner.

- B. Any failure by the Owner's or Manufacturers' Representative to detect, pinpoint, or object to any defect or noncompliance of these specifications of work in progress or completed work shall not relieve the contractor, or reduce, or in any way limit, his responsibility of full performance of work required of him under these specifications.

1.06 QUALIFICATIONS

- A. Applicator must be approved by the membrane manufacturer.
- B. Liquid system must qualify for the manufacturer's warranty.



1.07 DELIVERY STORAGE AND HANDLING

- A. Deliver all materials and store in their original unopened containers.
- B. Store containers on pallets in a covered or shaded area.
- C. Store all material in a manner, which meets all federal, state and local requirements.
- D. Store in areas where the maximum temperature does not exceed 90° F and at a minimum of 40° F.
- E. Ensure drums are properly covered with a moisture proof covering. Under certain conditions condensation or rain may infiltrate and contaminate the drum contents through the “bung” and ring areas.
- F. **Do not store ElastiKote Rust Inhibitive/EPDM Primer where it will freeze.**
- G. **KEEP OUT OF THE REACH OF CHILDREN.
KEEP AWAY FROM HEAT, FLAME OR ANY OTHER SOURCE OF IGNITION.**

1.08 QUALITY ASSURANCE

- A. Submit certification that the materials to be used meet these specifications and are acceptable for use with the field membrane system and for the surfaces on which they are to be applied.
- B. Installation:
 - 1. Unless otherwise indicated, the materials to be used in this specification are those specified and denote the type, quality, performance, etc. required. All proposals shall be based upon the use of the specified material.
 - 2. Install materials in accordance with the manufacturer's current published application procedures and the general recommendations of the National Roofing Contractor's Association.
 - 3. It will be the contractor's responsibility to obtain and/or verify any necessary dimensions by visiting the job site, and the contractor shall be responsible for the correctness of same. Any drawings supplied are for reference only.
 - 4. Contractor shall plan and conduct the operations of the work so that each section started on one day is complete, details installed and thoroughly protected and in watertight condition before the close of work for that day.
 - 5. Materials will be securely fastened in place in a watertight, neat and workmanlike manner. All workmen shall be thoroughly experienced in the particular class of work upon which employed.
 - 6. Work shall be performed in accordance with these specifications and shall meet the approval in the field of the Architect, consultant, or designated owner's representative.
 - 7. All waste materials, rubbish, etc., shall be removed from the Owner's premises as accumulated. Rubbish shall be carefully handled to reduce the spread of dust, and shall be deposited at an approved disposal site.



1.09 WARRANTY

- A. Upon completion of work provide a Manufacturer's standard 5-Year warranty covering manufacturer's materials installed by contractor. Warranty is to cover materials only for the full liquid system specified including all flashings.
- B. The contractor is responsible to provide diligent vigilance and to take reasonable and prudent preventive action to avoid damages occurring to the building resulting from penetration of water during construction.
- C. The contractor shall guarantee all work against defects in labor and workmanship for a period of two (2) years from the date of final acceptance.

1.10 INSTALLATION CONFERENCE

- A. Refer to Section 01110 - Notification of Architect Requirements

1.11 SITE PROTECTION

- A. Protect all exposed surfaces and finished walls with a tarp or suitable covering to prevent damage to such areas. The contractor shall assume full responsibility for any damage to finished areas.

1.12 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original unopened packaging with all tags and labels intact and legible. Container labels shall indicate appropriate warnings, storage conditions, lot numbers, and usage instructions. Handle and store materials and equipment in such a manner as to avoid damage. **Do not allow the ElastiKote Rust Inhibitive/EPDM Primer to freeze.** The proper storage of materials is the sole responsibility of the contractor. Materials damaged in shipping or storage shall not be used. Wet or damaged roofing materials shall be discarded, removed from job site, and replaced with new materials prior to application.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Supply ELASTIKOTE LLC's standard 5-Year warranty covering manufacturer's materials in accordance with all ELASTIKOTE LLC application requirements and details.
- B. ELASTIKOTE LLC
1480 Englewood Avenue
Akron, OH 44305
800-992-1053

2.02 FLUID APPLIED MEMBRANE

- A. ElastiKote 100
 - 1. Ready to use single component high performance SEBS resin.
- B. Characteristics *ElastiKote 100*



For specific product test results refer to the *Technical Information* section of these Product Data Sheets.
(See links below: Ctrl + Click to follow link)

- ElastiKote® Rust Inhibitive/EPDM Primer <http://www.elastikote.com/products/pre-application-products-tools/13/>
- ElastiKote® 100 <http://www.elastikote.com/products/base-coats-and-topcoats/9/>
- ElastiKote Labor Sav'R® Mastic <http://www.elastikote.com/products/mastics/11/>
- ElastiKote® SEBS Mastic <http://www.elastikote.com/products/mastics/11/>
- ElastiKote® Substrate Cleaner <http://www.elastikote.com/products/pre-application-products-tools/13/>
- ElastiKote® 100 SB Silver <http://www.elastikote.com/products/stain-blockers/10/>
- ElastiKote® 100 Sprayable Mastic <http://www.elastikote.com/products/mastics/11/>

C. Packaging

1. 5-gallon pails or 55-gallon drums (50 gallons net by weight)

D. Storage

1. Two (2) years in original unopened container.

E. Detailed Roofing Application Drawings

1. For Detailed METAL drawings refer to <http://www.elastikote.com/rsupport/?type=Metal>

2.03 PRIMER

- A. ElastiKote Rust Inhibitive/EPDM (applicable as needed). Prime all metal areas displaying severe rust.
- B. ElastiKote 100 SB Silver is to be utilized on all areas where existing previously applied aluminized asphalt coating or asphalt bitumen is to remain within the target application zone after extensive and proper cleaning has concluded.
- C. It is acceptable to utilize ElastiKote 100 SB Silver as 1st Coat in lieu of Rust Inhibitive/EPDM Primer if existing aluminized asphalt coating or asphalt bitumen is to remain within the assembly.

SPECIFICATION NOTE: ELASTIKOTE LLC recommends that on all metal surfaces to be restored that display excessive rust deterioration, a rust inhibitive primer be applied after proper surface cleaning and before applying ElastiKote 100. All fuel type vertical storage tank candidates to be restored must first be sand-blasted and properly prepared, including neutralizing and removal of all fuel or solvent spillage or overflow before application of primer is initiated.

2.04 REINFORCEMENT

- A. Spun-laced high performance polyester reinforcement scrim used at change of plane junctures, penetrations, curbs, projections, repairs, and seams.

2.05 TOOLS AND EQUIPMENT

- A. To maintain efficiency, sufficient pail and drum heat bands will be required to keep two or three pails or two drums heating and/or stirring ahead of installation crew. One heat band per 5-gal pail and two per 50-gal drum are required.
- B. For Elastikote 100, use a smooth-medium (1/4" – 3/8" nap) roller if rolling. Spray application is the preferred method for all sprayable materials, or a soft brush may be used. For SEBS or Labor Sav'R Mastic, depending on the area to be covered 1–2 & 4–6-inch soft brushes or smooth-medium (1/4" – 3/8" nap) roller may be used. A 2"– 4" square edged trowel may be used for seams. Brushing SEBS or Labor Sav'R mastic is recommended for vertical seams, flashings, and non-typical configurations. A caulking tube assembly may also be used.

The following spray application protocol is pertinent to the Elastikote Rust Inhibitive/EPDM Primer. Use sprayers such as the Graco 833 discussed below. However, Use spray tips: 617 – 619.

CAUTION: Always thoroughly rinse and flush all hoses and equipment with like kind liquid prior to application process of differing liquid types such as solvent based vs. water based.

SPECIFICATION NOTE: Prior to application, ALWAYS THOROUGHLY STIR PRODUCT from bottom to top utilizing a paddle type mixer to ensure proper incorporation of product "solids" which will settle to the bottom of the product container during storage and shipping. During stirring procedure, make sure the paddle "sweeps" completely to the bottom. Do NOT use any type of high speed mixing apparatus that can potentially create air bubbles within the product. Do Mix a 50-gallon drum for 20 minutes and a 5-gallon pail for 5 minutes Do NOT over mix or allow air bubbles that will cause pin holes

- C. When spray applying Elastikote 100 resin, pumps like the Graco 733, Graco 833, Graco King 45:1, Bulldog 30:1, HydraMax or similar will need to be utilized. Product should be sprayed at 2500 – 3000 PSI. Graco recommended XHD tips such as 625 – 633 or 725 – 733 and always spray without utilizing a diffuser or atomizer bar to best ensure proper application millage and performance efficiency. 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. Caution should be exercised especially with overspray.
- D. Elastikote products must be properly heated for most all installation methods.



Material Heating Guide

*ElastiKote 100 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

Heating of the product to proper temperature range is required during application in both warm weather and cold weather. Never over heat the product during extreme temperature conditions. The heating procedure allows for proper preparation of the product in anticipation of the application process, and to maximize uniform performance coverage. Heating is accomplished with heat bands or a heat exchanger (for spray methods) to maintain proper product viscosity and to maximize the efficiency of the installation process. The heating procedure also enables the installer to synchronize the product temperature range with the target substrate temperature. The determination of the exact application temperature per product will vary depending upon several key factors or conditions. The most critical factors that impact the product application temperature are: the existing ambient temperature, the target substrate temperature, spray tip size, application spray equipment type, delivery distance, hose size, and building height.

Always synchronize the heating process of the material to be installed with the target metal deck temperature. Never over heat the product during extreme temperature conditions. For proper performance of applied product, when the target metal deck temperature is equal (very hot during the summer) or in excess of the product application temperature, always adjust the product temperature before application. If the applied product becomes too hot from the combination of preparation heating and the extreme heat of the target substrate, the product will run or "sag" resulting in low and unacceptable millage thickness. Conversely, if the product is not heated enough and is applied at too low of a temperature, the spray pattern will result in the phenomena known as webbing or "fingering" and the product will not self level. The proper product temperature range is especially critical when applying the product identified as ElastiKote 100 Sprayable Mastic.

- E. During application in cold weather, always ensure substrate to be totally dry with no ice, dew, frost, snow, or any other type moisture present.
- F. Never apply ElastiKote 100 when ambient temperature is below 40° F
- G. Cleaning: Clean tools with mineral spirits after application of any ElastiKote SEBS product. Do not confuse the cleaning protocol for ElastiKote Rust Inhibitive/EPDM Primer. This product is Water-based and all equipment utilized in the application of ElastiKote EPDM Primer must be properly cleaned utilizing only clear water.

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PART 3 - APPLICATION

3.01 SURFACE PREPARATION

- A. Surfaces must be structurally sound, dry and clean, free from moisture, dirt, grease, biomass, oil, paint or any other loose particulate or existing waterproof coatings. If prudent and applicable, use ElastiKote Substrate Cleaner to remove existing and persistent surface grease and oil to enhance particulate removal. Remove all previous coatings, or any other contamination, including rust, which may affect the bond of the ElastiKote 100 resin. ELASTIKOTE LLC recommends prior to final high pressure spray cleaning, a phosphoric acid based cleaner to be utilized to neutralize excessive rust and enhance particulate removal.

Visual inspection only is acceptable with metal substrates for restoration candidacy.

1. Entire restoration area must be properly cleaned.
2. All fasteners must be checked and tightened – If a fastener is determined to be in need of replacement, it must be replaced carefully with an oversized fastener carefully to prevent damage or destruction of the gasket or of inflicting “micro-fracturing”. All fastener heads must be coated with SEBS mastic or 100 Sprayable mastic prior to the comprehensive SEBS restoration liquid coating process commencing.

Specification Note: Target substrates that utilize nails for attachment of metal panels are NOT eligible for restoration unless all nails are removed and replaced with a screw type fastener prior to commencing with the restoration process.

3. All vertical seams must be inspected and sealed with ElastiKote SEBS mastic or Sprayable mastic. All horizontal seams must be inspected and sealed with SEBS mastic and scrim. ElastiKote Labor Sav’R mastic is acceptable for horizontal seams when seam separation does not exceed 3/16 inch.
4. All rakes, ridge caps, vents, penetrations, flashings, skylights, “crickets”, exhaust vents, ladders, splash guards, eave gutters & downspouts, electrical services, curbs, expansion joints and pitch pockets must be inspected and properly prepared & sealed as necessary. For seams, cracks, and penetrations that are a maximum of 3/16" wide or less, it is acceptable to properly seal such physical details using ElastiKote Labor Sav’R mastic applied at a minimum thickness of 3/16" and a minimum width of 4" wide.
5. Advise owner of any observed structural defects and determine from owner any roof “load” restrictions.
6. All interior (valley) gutters must be sealed with ElastiKote Labor Sav’R Mastic applied at a minimum thickness of 3/16" and extending a minimum of 2" beyond the gutter onto roof substrate.
7. Any defective or "rusted out" metal must be replaced or prepared utilizing SEBS Mastic or Sprayable Mastic and reinforcement scrim.
8. At conclusion of roof restoration project, all skylights must be identified and neatly lined with a minimum 4" wide "safety red" perimeter stripe using ElastiKote SEBS red polymer coating.



- B. Mechanically remove all loose rust, dirt, biomass, expended previous coatings, bird guano, etc. by vacuum, mechanical broom, power washing, etc. For best results when power washing, spray pressure should be in the range of 4,000 +/- 100 psi using a 6,000 psi turbo tip.
- C. After initial power washing and debris removal, clean surface area with ElastiKote Substrate Cleaner consisting of a water-based heavy-duty degreaser mixed with water. Prior to applying cleaning agent, surface must be sprinkled with water to dampen the surface. Working in a systematic grid pattern, apply cleaning agent mixed with water using a hand held sprayer at a rate of 200 square feet per gallon. Allow product to rest on surface for approximately 3 - 4 minutes and then using a push broom apparatus, methodically scrub treated surface area. Rinse thoroughly with water to remove all debris and residues.
- D. Identify areas for rust neutralization. Pre-moisten with a garden hose those areas to be treated with ElastiKote Phosphoric Acid Cleaner. If the area is severely rusted, dilute ElastiKote Phosphoric Acid Cleaner to a 1 to 1 ratio with water. If roof metal substrate has only surface rust, dilute to a ratio of 1 to 2 parts water. Thoroughly mix (DO NOT HEAT). While wearing required protective equipment (see product MSDS) apply cleaner using appropriate spray equipment (preferred method) or product may be rolled with a medium nap roller. Allow ElastiKote Phosphoric Acid Cleaner to work for 30 minutes. Thoroughly rinse with water. If rust is still present, repeat as necessary. **ALL AREAS CLEANED WITH PHOSPHORIC ACID CLEANER WILL REQUIRE PRIMING.**

If any existing coating or prior contaminants cannot be removed, perform an adhesion test prior to the application of ElastiKote 100 resin to insure compatibility and proper bonding of restoration product to substrate.

After extensive and proper cleaning has concluded, ElastiKote 100 SB Silver is to be utilized on all areas where existing previously applied aluminized asphalt coating or asphalt bitumen is to remain within the target application zone.

If existing aluminized asphalt coating or asphalt bitumen is to remain within the assembly, to prevent compatibalized oils from the underlying asphalt roof substrate from permeating to the surface coating and creating discoloration, it is acceptable to utilize ElastiKote 100 SB as 1st application coat, in lieu of priming.

- E. Any deteriorated roofing membrane being coated should first be repaired using like membrane to the existing roof system. Any roof system with greater than 5% moisture (use moisture meter) in the insulation must have the wet areas removed and replaced. Consult Manufacturer regarding any moisture issue.
- F. All rust and contaminants need to be removed from metal to be flashed. Clean all metal to bright. Mechanical abrasion (SSPC SP-3 or SSPC SP-10) may be necessary to remove contaminants. Perform an adhesion test in the event potential vulnerability exists in pre-existing substrate conditions. For application to Kynar or metals with similar finishes contact the ELASTIKOTE LLC Technical Department.
- G. For PVC piping use sandpaper or similar to "rough up" the surface before flashing.

3.02 PRIMING

- A. Spray apply ElastiKote Rust Inhibitive/EPDM Primer (as needed) on all areas displaying any form of residual rust invasion or aggression to the target metal surface. Always follow manufacturer's label instructions.



- B. Standard application practice for metal restoration does not require primer application provided the preparation practice adequately removes minor rust and contaminants.
- C. When pre-existing aluminized asphalt coating product or asphalt bitumen is embedded and/or is to remain within the substrate surface, prime as necessary using ElastiKote 100 SB Silver. After completion of specified cleaning methods, and confirming substrate surface area to be properly prepared and dry, apply primer. Application shall consist of using a medium nap roller or airless spray equipment (using a 617 – 619 XHD spray tip) and a minimum operating pressure of 500 psi are recommended). The primer is to be applied in a single coat process. Apply at a minimum rate of 6 wet mils @ 250 sq ft / gallon (3 mils dry).

Ensure 1st coat has properly dried and can withstand foot traffic. (Approximately 4 - 6 hours) before applying top coats.

- D. It is acceptable to utilize ElastiKote 100 SB Silver as 1st application coat, in lieu of priming, if existing aluminized asphalt coating or asphalt bitumen is to remain within the restoration target assembly.

3.03 REPAIRS

Before application of the ElastiKote 100 fluid applied membrane, perform all repairs using ElastiKote 100 Mastic and spun-laced high performance polyester reinforcement scrim. For seams, cracks, and penetrations that are a maximum of 3/16" wide or less, it is acceptable to properly seal such physical details using ElastiKote Labor Sav'R applied at a minimum thickness of 3/16" and a minimum width of 4" wide.

If a metal end lap has a separation gap of 3/16" wide or greater, install an applicable fastener strategically located to close the gap and enable seam sealing process.

For fastener repair, end lap and side lap metal panel separation or severely damaged repair areas, utilize ElastiKote SEBS or Sprayable Mastic and spun-laced high performance polyester reinforcement scrim. Place spun-laced high performance polyester reinforcement scrim in wet liquid and immediately apply a topcoat of ElastiKote SEBS or Sprayable Mastic wet-on-wet to ensure complete saturation and encapsulation of the scrim.

Prepare and properly seal all penetrations, curbs, drains, skylights, stacks, lightning protection devices, pitch pans, smoke hatches, man doors, access hatches, sprinkler devices, stairs and walk supports, penetrating beams, A/C units, communication and satellite dishes, bracing, pipe supports, passive water outlets, and any other physical apparatus to remain within the restoration roof assembly. Seal all above identified physical details using ElastiKote Labor Sav'R Mastic applied at a minimum thickness of 3/16" and a minimum width of 4" wide.

Inspect and immediately correct and remove all voids, wrinkles, fish-mouths, trapped air, etc.

Base and top spun-laced high performance polyester reinforcement scrim coats must extend a minimum of 2" past the perimeter of the repaired area.

If the repair is to a crack, split or similar, a minimum 4" wide reinforcement scrim must be used.



1. Base Repair Coat: Minimum consumption of 2.0 gal/sq (25 wet mils—verify with *Wet Film Gauge*) depending on surface texture.
2. Top Scrim Coat: Minimum consumption of 2.0 gal/sq (25 wet mils—verify with *Wet Film Gauge*) depending on surface texture.

For all MASTIC application methods, MASTIC product must be heated. Heat ElastiKote SEBS & Labor Sav’R Mastics to 80°F - 100°F with heat bands. Heat ElastiKote 100 Sprayable Mastic to 80°F – 130°F with heat bands or heat exchanger to ensure proper viscosity for maximum performance of applied product.

Material Heating Guide

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

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

3.04 FLASHING & OTHER DETAIL APPLICATION

A. Prior to final restoration coating process, prepare all flashings and flashing seams using ElastiKote SEBS mastic or ElastiKote *Labor Sav’R* mastic product. Prepare all change of plane flashing areas. For all change of plane flashing areas with separation cracks that are a *maximum* of 3/16" wide or less, it is acceptable to properly seal such physical details using ElastiKote *Labor Sav’R* mastic product applied at a minimum thickness of 3/16" and a minimum width of 4" wide. For all flashings and details that are greater than 3/16" wide, apply an even base scrim coat of ElastiKote 100 SEBS Mastic with a brush or roller. Embed reinforcement scrim in this layer and immediately apply a top scrim coat of ElastiKote SEBS or ElastiKote 100 Sprayable Mastic wet-on-wet. Configure the reinforcement by cutting reinforcement scrim 4" wider than the split, seam or transition in each direction. Ensure that polyester reinforcement is fully saturated and encapsulated within applicable mastic and does not have voids, fish mouths, trapped air, or wrinkles.

1. Base Scrim Coat: Minimum consumption of 2.0 gal/sq (25 wet mils—verify with *Wet Film Gauge*) depending on surface texture.
2. Top Scrim Coat: Minimum consumption of 2.0 gal/sq (25 wet mils—verify with *Wet Film Gauge*) depending on surface texture.

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- B. All coping materials and/or termination bars incorporated within the roofing assembly must be inspected. All coping material joints (if applicable) must be properly prepared and sealed. All termination bars must be sealed and encapsulated utilizing ElastiKote SEBS Mastic or ElastiKote Labor Sav'R Mastic. All fasteners must be inspected, replaced if defective, and properly sealed with a "dollop" application of ElastiKote SEBS Mastic prior to restoration coating process.

3.05 FIELD APPLICATION

- A. **TWO COATS - EACH APPLIED AT MINIMUM 1.5 GALLONS PER SQUARE RECOMMENDED COVERAGE RATE WITH THE REQUIREMENT THAT SECOND (2ND) COAT BE INSTALLED PERPENDICULAR TO THE FIRST (1ST) TO ENSURE OPTIMUM PERFORMANCE.**

Apply an initial "1st Coat" of ElastiKote 100 with a sprayer and/or a roller over the entire roof surface. Allow the ElastiKote 100 "1st Coat" to cure a minimum of approximately 4 hours to enable proper drying (perform physical inspection prior to commencing with final application), before applying the final coat or "wear" coat.

After completion of the final application, which is to serve as the "wear" coat, wait 24 hours before trafficking.

1. 1st Coat: Minimum application rate of 1.50 gal per sq.

It is recommended, but NOT MANDATORY, to utilize the contrasting colored "light gray" ElastiKote 100 resin for the initial 1st Coat application. The contrasting color provides applicator the ability to more easily identify "holidays" or thinly coated surface areas to be remedied while performing the final application process to ensure proper membrane thickness millage at time of completion. Cured Final Membrane Thickness must equal or exceed 21 dry mils.

Note: It is acceptable to utilize ElastiKote 100 SB Silver, as 1st Coat if existing aluminized asphalt coating is to remain within the assembly.

2. Finish (wear) Coat: Minimum application rate of 1.50 gal per sq.

It is recommended to utilize a "bright white" color ElastiKote 100 for the final Coat (wear) application to maximize reflectivity and energy conservation.

- B. **Cured Final Membrane Thickness: A minimum of 21 dry mils.**

3.06 COATING INSTALLATION - GENERAL

- A. Membrane Application: Install roofing in accordance with roofing system manufacturer's current published instructions and the following requirements.



- B. Aesthetic Considerations: The overall aesthetically pleasing appearance of the finished roof is a standard requirement for this Project. Make necessary preparations, utilize recommended application techniques, apply the specified materials and exercise care in ensuring that the finished application is acceptable to the Owner.
- C. General Installation:
 - 1. Contractor shall prevent overspray and be responsible for parking lot areas and/or adjoining areas not part of this contract.
 - 2. Contractor shall be responsible for sealing, as required, all openings that may allow coating migration or dripping, i.e. pitch dams, envelopes, and filler strips.
 - 3. Correct all errors in application the same work day they occur, including bare spots, improper application, physical damage and all work not meeting specifications.
 - 4. Protect adjacent areas and materials from damage by coating operations with tarpaulin or other durable materials.
 - 5. Apply materials in straight, smooth lines without smears, overlaps, or splatter on adjoining materials. Complete roofing operations promptly.

3.07 CLEANING

- A. Remove all used containers and wrappings from the site.
- B. Dispose in approved location and manner.
- C. Remove markings from any finished area.
- D. Repair any finished areas damaged by this application.
- E. All waste materials, rubbish, etc., shall be removed from the Owner's premises as accumulated. Rubbish shall be carefully handled to reduce the spread of dust, and shall be deposited at an approved disposal site. At completion, all work areas shall be left broom clean and all contractor's equipment and materials removed from the site.

3.08 COMPLETION

- A. Upon completion of new installation (including all associated work), institute appropriate procedures for surveillance and protection of finished work during remainder of construction period. Protect all areas where Coating has been installed.
- B. Notify the Owner and the Manufacturer when finished. Coordinate final inspection by Manufacturer. Complete all repairs or requests promptly. Comply with all paperwork and payment requirements necessary to acquire the specified warranty.

END OF SECTION