

X-TENDA COAT™

100% Acrylic Fluid Applied Elastomeric Coating System

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The information contained in this generic specification represents a part of Carlisle SynTec System's requirements for obtaining a roofing systems warranty. Construction materials and practices, building siting and operation, climatic conditions, and other site-specific factors will have an impact on the performance of the roofing system. Carlisle SynTec Systems recommends that the building owner retain a design professional to determine appropriate design measures to be taken in order to address these factors.

This section is to serve as criteria for Specifiers and Authorized Applicators regarding the installation of Carlisle's X-Tenda Coat 100% Acrylic Fluid Applied Elastomeric Coating System.

Various Warranty Tables have been included in Paragraph 1.05 citing various requirements by which specific warranty coverage can be obtained. Appropriate Warranty Table should be referenced to ensure proper warranty coverage.

PART I – GENERAL

1.01 Description

The **Carlisle X-Tenda Coat Acrylic System** is a water-based, high solids elastomeric coating utilizing 100% acrylic resins, combined with reinforcing, laminar pigments, a biocide package and non-migrating fire retardants. Available in white, gray and tan.

The **Carlisle X-Tenda Coat Plus-K Acrylic System** is a water-based, high solids elastomeric coating utilizing Kynar® fluoropolymer which provides color retention, even in bright colors. It is available in White and Custom Colors.

X-Tenda Coat and X-Tenda Coat Plus-K were designed to perform as a color coating as well as the weathering surface in restoration systems to extend the life of existing EPDM, TPO, PVC, Hypalon®, Metal, Smooth BUR, SBS and APP Modified Bitumen roofs. The system forms a waterproof elastomeric seal, uniformly covering the textured profile of various substrates to form a monolithic membrane, providing protection from normal weathering, aging, and ultraviolet exposure. X-Tenda Coat is classified as a UL Class "A" Fluid Applied Coating System.

White X-Tenda Coat and X-Tenda Coat Plus-K are certified to meet ENERGY STAR®, Cool Roof Rating Council (CRRC), and LEED® Criteria for reflectance and emissivity rating.

The coating is spray or roller applied in a minimum of two coats after the membrane has been washed, primed and thoroughly rinsed. Proper preparation of the field seams and flashings is required prior to application of the X-Tenda Coat Acrylic System. For newly installed single-ply roof membranes contact Carlisle for recommendations prior to applying the X-Tenda Coat Acrylic System.

1.02 General Design Considerations

- A. It is the responsibility of the Specifier to review local, state and regional codes to determine their impact on the specified restoration system.
- B. It is the responsibility of the building owner or his/her designated representative to verify structural load limitation.
- C. Coordination between various trades is essential to avoid unnecessary rooftop traffic over completed sections of the roof and to prevent subsequent damage to the membrane roofing system.
- D. It is recommended that a minimum roof slope of 1/2" per horizontal foot be provided.
- E. The formation or presence of mold or fungi in a building is dependent upon a broad range of factors including, but not limited to, the presence of spores and nutrient sources, moisture, temperatures, climatic conditions, relative humidity, and heating/ventilating systems and their maintenance and operating capabilities. These factors are beyond the control of Carlisle and Carlisle shall not be responsible for any claims, repairs, restoration or damages relating to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in any building or in the air, land, or water serving the building.

1.03 Quality Assurance

Building Codes are above and beyond the intended purpose of this specification. The respective **owner** or **specifier** should consult local codes for applicable requirements and limitations. It is the responsibility of the specifier to review local, state and regional codes to determine their impact on the specified Carlisle Roofing System.

NOTE: For code approvals achieved with the Carlisle Roofing Systems, refer to the Carlisle Code Approval Guide.

- A. Carlisle SynTec Systems recommends the use of Carlisle supplied products. The performance or integrity of products by others, **when selected by the specifier and accepted as compatible by Carlisle**, is not the responsibility of Carlisle and is **disclaimed** by the Carlisle Warranty.
- B. The coating shall show no deleterious effects (i.e. no surface chalking or cracking, no delamination and no color fade) after 5000 hours of testing in accordance with ASTM G23.
- C. X-Tenda Coat Acrylic shall show no more than 0.3% weight increase when measured with a moisture meter after being placed in a pressurized test chamber producing 5" of water pressure, equivalent to 100 mph wind pressure for a period of 40 hours continuous testing in accordance with Federal Specification TTC-555B.
- D. The application of this coating system must be in accordance with Carlisle's estimated application rate for required dry film thickness, published application instructions and Material Safety Data Sheets.
- E. The specified roofing system must be installed by a Carlisle Authorized Roofing Applicator in compliance with drawings and specifications as approved by Carlisle SynTec.
- F. There must be no deviations made from Carlisle's specification or Carlisle's approved shop drawings without the **PRIOR WRITTEN APPROVAL** of Carlisle SynTec.

- G. After completion of the installation, and upon receipt of the “Daily Quality Control Form”, an inspection shall be conducted by a Field Service Representative (FSR) of Carlisle SynTec to ascertain that the coating system has been installed according to Carlisle’s published specifications applicable at the time of bid. This inspection is to determine whether a warranty shall be issued. It is not intended as a final inspection for the benefit of the owner.
- H. The solar reflectance of this roofing product may decrease over time due to environmental defacement such as dirt, biological growth, ponded water, etc. The roof should be monitored at regular intervals and maintained or cleaned when necessary to assure the maximum solar reflectance.

1.04 Submittals

- A. To ensure compliance with Carlisle’s minimum warranty requirements, **all projects should be forwarded to Carlisle for review** prior to installation, preferably prior to bid.
- B. Shop drawings must be submitted to Carlisle by the Carlisle Authorized Roofing Applicator along with a completely executed Notice of Award (Page 1 of Carlisle’s Request For Warranty form) for approval. Approved shop drawings are required for inspection of the roof and on projects where on-site technical assistance is requested.

Shop drawings must include:

1. Outline of roof and size
2. Roof membrane type
3. Location and type of **all** penetrations
4. Perimeter and penetration details
5. Key plan (for multiple roof areas) with roof heights indicated

When field conditions necessitate modifications to originally approved shop drawings, a copy of the shop drawing outlining all modifications must be submitted to Carlisle for revision and approval prior to inspection and warranty issuance.

- C. The **Application for 5 or 10 Year X-Tenda Coat Acrylic Limited System Warranty** must be completely executed and submitted for Carlisle’s review and approval prior to application. **As-Built Projects are not permitted.**
- D. A **Daily Quality Control Form** monitoring application activities shall also be completed during coating application and forwarded to Carlisle upon completion. The form should include information pertaining to wet-mil thickness, the quantity and batch numbers of the material applied and total square feet coated recorded daily.
- E. **Notice of Completion** (Page 2 of the Carlisle Request for Warranty form)

After project completion, a Notice of Completion must be submitted to Carlisle to schedule the necessary inspection of the project prior to issuance of the Carlisle Warranty.

1.05 Warranty

- A. **5 or 10-year Limited System Warranty** is available for a charge on commercial buildings with a current Carlisle Construction Materials Roofing System and only applies to the newly installed coating system. The system is defined as **coating, flashings, cleaners, sealants and other Carlisle brand products** utilized in this installation. For a complete description of these products, refer to the “Products Section” or the

applicable “Attachment” in the Carlisle Specifications. All warranted X-Tenda Coat Acrylic System warranties are limited to the cost of the original X-Tenda Coat Acrylic System materials and installation.

- B. **5 or 10-year Material Warranty** is available for a charge and applies to existing roofing materials listed in the warranty tables. Refer to the applicable Table for required cleaner/primer requirements and dry-mil thickness. Material Warranties are limited to the original cost of materials.
- C. All X-Tenda Coat Acrylic System warranties are separate from existing Carlisle Construction Materials Roofing System warranties.
- D. **See Tables I and II, on following pages, for information regarding Warranted Systems and Design Criteria:**

Table I X-Tenda Coat Limited System Warranty Options

5 or 10 Year System Warranty – Aged Membrane 1 year or older									
Existing CCM Roof System	T-23 Primer	General Purpose Cleaner/Primer	EPDM Activator	Prime and Seal Basecoat	X-Tenda Coat Basecoat	X-Tenda Coat Topcoat	X-Tenda Coat Plus-K Topcoat	Dry-Mil Thickness	
								Warranty	
								5 YR	10 YR ¹
EPDM			X		X	X	X	20 (14) ²	26 (20) ²
TPO	X	X			X	X	X	20 (14) ²	26 (20) ²
PVC	X	X		X		X	X	20 (14) ²	26 (20) ²

Note 1 – A minimum of 3 coats (1 basecoat and 2 topcoats) are required to achieve this dry-mil thickness

Note 2 – With the use of X-Tenda Coat Plus-K Topcoat, dry-mil thickness is indicated within parentheses

Table II

X-Tenda Coat Material Warranty Options

5 or 10 Year Material Warranty – Aged Membrane 1 year or older										
Existing Roof System	T-23 Primer	General Purpose Cleaner/Primer	EPDM Activator	Prime and Seal Base coat	Metal Primer	X-Tenda Coat Basecoat	X-Tenda Coat Topcoat	X-Tenda Coat Plus-K Topcoat	Dry-Mil Thickness	
									Warranty	
									5 YR	10 YR
EPDM			X			X	X	X	16 (10) ¹	20 (14) ¹
TPO	X	X				X	X	X	16 (10) ¹	20 (14) ¹
PVC	X	X		X			X	X	16 (10) ¹	20 (14) ¹
Metal		X		X	X		X	X	16 (10) ¹	20 (14) ¹
Hypalon		X		X					16 (10) ¹	20 (14) ¹
Smooth Surface BUR, APP or SBS		X		X			X	X	24 (18) ¹	28 ² (22) ¹

Note 1 – With the use of X-Tenda Coat Plus-K Topcoat, dry-mil thickness is indicated within parentheses

Note 2 - A minimum of 3 coats (1 basecoat and 2 topcoats) is required to achieve this dry-mil thickness

1.06 Job Conditions

- A. When possible on multiple level roofs, begin the application on the highest level to avoid or minimize construction traffic on completed roof sections.
- B. Install all materials in strict accordance with manufacturer’s published safety, weather and temperature precautions. Take necessary measures to protect unrelated work and other adjacent surfaces from overspray or spillage. Refer to the Safety Data Sheets (SDS) and Product Data Sheets (PDS) for additional information concerning actions to be taken for spills and run-off into protected streams.
- C. Store Carlisle’s X-Tenda Coat Acrylic, EPDM Activator, General Purpose Cleaner, T-23 Primer and Prime-and-Seal on job site between 50°F and 90°F.
- D. Do not apply X-Tenda Coat Acrylic or components when the ambient or surface temperature is below 50°F or above 140°F.
- E. Do not apply if surface moisture is present, when the dew point is within 5°F of the surface temperature or when there is a possibility of temperatures falling below 32°F within a 24-hour period.

1.07 Product Delivery, Storage and Handling

- A. Deliver materials to the job site in the original, unopened containers.
- B. When loading materials onto the roof, the Carlisle Authorized Roofing Applicator must comply with the requirements of the specifier/owner to prevent overloading and possible disturbance to the building structure.

- C. Job site storage temperatures in excess of 90° F (32° C) may affect shelf life of curable materials (i.e. adhesives and sealants).
- D. Do not thin the X-Tenda Coat or X-Tenda Coat Plus-K Acrylic material.

PART II – PRODUCTS

2.01 General

The components of the X-Tenda Coat Coating System are to be products of Carlisle or accepted by Carlisle as compatible. The installation, performance or integrity of products by others, **when selected by the specifier and accepted by Carlisle**, is not the responsibility of Carlisle and is expressly disclaimed by the Carlisle Warranty.

2.02 Materials/Related Products

A. **X-Tenda Coat Acrylic (ASTM D6083)** – a water-based, elastomeric coating of 100% acrylic resins combined with reinforcing lamina pigments, an effective biocide package and non-migrating fire retardants, resulting in durability, weatherproofing ultraviolet resistance, algae/mildew resistance and fire resistance. The coating is available in standard colors of white, gray or tan. The gray or tan X-Tenda Coat is recommended as a basecoat over EPDM and TPO roof membranes. The white X-Tenda Coat Acrylic Systems are eligible for the ENERGY STAR® rating. Available in 5-gallon, 55-gallon and 250-gallon containers.

X- Tenda Coat Physical Properties		
Test	Test Method	Typical Properties
% Solids by weight	ASTM D2369	60% (± 2%)
% Solids by volume	ASTM D5201	54% (± 2%)
Weight per Gallon	ASTM D1475	11.8 lbs (1.41 kg/l)
Tensile Strength	ASTM D412	250 psi (± 20) @ 75°F (24°C) 440 psi (± 20) @ 0°F (-18°C)
Elongation	ASTM D412	75°F (24°C) = 300% 0°F (-18°C) = 340%
Hardness, Shore A	ASTM D2240	60 ± 5
Permeance (perms) 20 mils (0.5 mm)	ASTM E96	3.0
Fungi Resistance	ASTM G21	Zone Rating (Pass)
UV Resistance	ASTM G23	5,000 hrs
High Temperature Resistance	ASTM D794	No age hardening up to 250°F

- B. **X-Tenda Coat Plus-K Coating (ASTM D6083)** – is a water-based, high solids elastomeric coating utilizing Kynar® fluoropolymer which provides color retention, even in bright colors. The coating, along with Kynar polymer, contains an effective biocide package and non-migrating fire retardants, resulting in durability, weatherproofing ultraviolet resistance, algae/mildew resistance and fire resistance. The coating is available in white and custom colors. The white X-Tenda Coat Plus K Coating System is eligible for the ENERGY STAR® rating. Available in 5-gallon, 55-gallon and 250-gallon containers.

X- Tenda Coat Plus-K Physical Properties		
Test	Test Method	Typical Properties
% Solids by weight	ASTM D2369	52% (± 2%)
% Solids by volume	ASTM D5201	36% (± 2%)
Weight per Gallon	ASTM D1475	11.0 lbs (1.32 kg/l)
Tensile Strength	ASTM D412	825 psi (± 20) @ 75°F (24°C)
Elongation	ASTM D412	75°F (24°C) = 148%
Permeance (perms) 20 mils (0.5 mm)	ASTM E96	3.0
UV Resistance	ASTM G155	4,000 hrs
High Temperature Resistance	ASTM D794	No age hardening up to 250°F
VOC Content	EPA23	185 g/l

- C. **Prime-and-Seal Base Coat:** A light gray in color, water-based elastomeric acrylic basecoat used exclusively for PVC, metal, smooth surface built-up and modified bitumen roof systems, prior to application of X-Tenda Coat Topcoat. Available in 5-gallon, 55-gallon and 250-gallon containers.

Prime-and-Seal Physical Properties		
Test	Test Method	Typical Properties
% Solids by weight	ASTM D2369	66% (± 2%)
% Solids by volume	ASTM D5201	51% (± 2%)
Weight per Gallon	ASTM D1475	11.8 lbs (1.41 kg/l)
Tensile Strength	ASTM D412	200 psi (± 20) @ 75°F (24°C)
Elongation	ASTM D412	75°F (24°C) = 180%
Permeance (perms) 20 mils (0.5 mm)	ASTM E96	2.7
Hardness, Shore A	ASTM D2240	65 ± 5

- D. **Coating-Ready Cover Tape:** An elastomeric, modified butyl rubber, polyester fabric-backed 4" wide tape required to cover seams with delamination between 1/2" to 2". Seams with delamination greater than 2" must be repaired with splicing cement and overlaid with Pressure-Sensitive Flashing. The Coating Ready Cover Tape is also recommended as an overlay for non-delaminated seams and is required for projects requesting a 10-year System Warranty. Available in 50' rolls packed 12 per carton.
- E. **X-Tenda Coat EPDM Activator:** A spray applied, water-based cleaner used as a soaking detergent to activate the EPDM surface and increase the bond of the X-Tenda Coat Acrylic to the EPDM substrate. Available in 5-gallon and 55-gallon containers.

- F. **X-Tenda Coat General Purpose Cleaner:** This General Purpose Cleaner is used as a cleaner to prepare TPO, Hypalon, PVC, metal, and asphaltic-based surfaces for application of X-Tenda Coat Acrylic System. Available in 1 and 5 gallon containers.
- G. **X-Tenda Coat T-23 Primer:** T-23 Primer is a low-viscosity, water based acrylic primer that is designed to promote adhesion of X-Tenda Coat Acrylic coating to new or existing TPO and PVC membranes. Available in 5-gallon containers. Coverage rate is 200-300 square feet per gallon using an airless sprayer or roller.
- H. **X-Tenda Coat Metal Primer:** This product will be used primarily for applications over lightly rusted metal deck areas as a rust and stain inhibitor prior to the application of the Prime-and-Seal Base Coat. The X-Tenda Coat Metal Primer is a single component, latex primer that is blister and stain resistant to prime existing metal roofs prior to coating application. This water-based, medium-viscosity material conforms to all local, state and federal environmental and VOC requirements and is available in 1-gallon cans or 5-gallon pails.
- I. **X-Tenda Coat Reinforcing Mesh:** A stitch bonded 100% polyester fabric for use with elastomeric coatings. High absorption capability allows the mesh to be encapsulated by the liquid coating. Used to reinforce detail areas, such as seams, splits, drains, vents and other protrusions through the roof surface. Available in 4", 6", 12" and 40" widths.
- J. **Sure-Seal® Pressure Sensitive Flashing:** A nominal 40-mil black, semi-cured EPDM membrane laminated to a nominal 30-mil cured, pre-applied adhesive tape. Available in 6" and 9" widths and 100' long rolls used in conjunction with Weathered Membrane Cleaner and EPDM Primer to overlay delaminated seams and cuts in the EPDM membrane.
- K. **SecurTAPE™:** A 3" or 6" wide by 100' long splice tape used to reseal open field seams.
- L. **EPDM or Low-VOC EPDM Primer:** A solvent-based primer used to prepare the surface of EPDM membrane for application of Splice Tape or Pressure Sensitive Flashing.
- M. **Weathered Membrane Cleaner:** A clear, solvent based cleaner used to loosen and remove dirt and other contaminants from the surface of exposed EPDM membrane (for repairs) prior to applying EPDM Primer or adhesive application (EP-95).
- N. **Other Related Materials:** Refer to the "Products" Section in the Carlisle Specification Manual for other related materials (i.e. Lap Sealant, Water Cut-Off Mastic, etc.).

O. ENERGY STAR, CRRC and LEED Information

Physical Property	Test Method	Prime-and-Seal Base Coat	White X-Tenda Coat	Light Tan X-Tenda Coat	Light Gray X-Tenda Coat	White X-Tenda Coat Plus-K
ENERGY STAR – Initial Solar Reflectance	SSR	N/A	0.84	0.71	0.46	0.87
ENERGY STAR – Solar Reflectance after 3 years (uncleaned)	SSR	N/A	0.57	Pending	0.37	0.77
CRRC - Initial Solar Reflectance	ASTM C1549	N/A	0.84	0.71	0.46	0.87
CRRC – Solar reflectance after 3 years (uncleaned)	ASTM C1549	N/A	0.57	Pending	0.37	0.77
CRRC – Initial Thermal Emittance	ASTM C1371	N/A	0.89	0.93	0.89	0.87
CRRC – Initial Thermal Emittance after 3 years (uncleaned)	ASTM C1371	N/A	0.89	Pending	0.89	0.87
LEED – Thermal Emittance	ASTM E408	N/A	0.94	0.94		
Solar Reflective Index (SRI)	ASTM E1980	N/A	105	88	53	110
Pre-consumer Recycled Content		0%	0%	0%	0%	0%
Post-consumer Recycled Content		0%	0%	0%	0%	0%
VOC Content (g/l)		0	7	7	7	192
Manufacturing Location(s)		Phoenix, AZ	Phoenix, AZ Charleston, SC	Phoenix, AZ	Phoenix, AZ	Phoenix, AZ

PART III – EXECUTION

3.01 General

- A. When feasible, begin the application at the highest point of the highest roof level and work to the lowest point to prevent moisture infiltration and to minimize construction traffic on completed sections.
- B. Coordinate work to avoid conflict with building operations and take necessary measures to protect building site and contents as well as vehicles from coating overspray, spillage, falling objects, etc.
- C. Do not proceed with primer/coating application until all membrane repairs are completed.

3.02 Surface Inspection

- A. Before priming the roof surface for coating, inspect the roof surface for delamination, punctures, tears or cuts, open or partially opened seams and protruding fasteners. Small tears and cuts or seams delaminated 2" or less may be repaired with Coating-Ready Cover Tape once the membrane surface has been primed, rinsed and allowed to properly dry. Seams delaminated more than 2" must be re-adhered and overlaid with minimum 6" wide Pressure-Sensitive Flashing and EPDM Primer.

- B. Flashing details must be examined for loose or deteriorated flashing, cuts, tears and open inside or outside corners. Membrane and flashing terminations should be examined at perimeters, roof penetrations and drains to ensure watertight performance. Deficient terminations should be corrected in accordance with the appropriate Carlisle published detail.
- C. Areas where soft insulation has been detected should be examined further and if necessary core cuts should be taken to determine if moisture is present. Wet insulation, if found, should be removed and replaced with compatible material of equal thickness.
- D. Examine roof surfaces for excessive ponding. Small incidental areas of ponded water, no larger than five square feet each and not exceeding 5% of the total roof square footage, will not impact the performance of this coating system; however, in accordance with industry standards, the roofing assembly should be designed to prevent ponding of water on the roof for prolonged periods (longer than 48 hours). If necessary, tapered edge strips, crickets or saddles are to be installed where periodic ponding may occur. Roof surfaces that pond water for more than 48 hours after a rain event are deemed unacceptable for the X-Tenda Coat Acrylic System.
- E. Roof surface shall be clean, dry, free of dirt, dust, oil, surface chemicals or other contaminants that may adversely impact coating adhesion.
- F. Complete and forward to Carlisle the warranty request form, and if necessary include details for Carlisle's review and approval.

3.03 Surface Preparation

- A. Refer to the following attachments for surface preparation and installation information:
 1. Attachment I – X-Tenda Coat EPDM/TPO/PVC Installation Guide
 2. Attachment II – X-Tenda Coat Metal Roof Installation Guide
 3. Attachment III – X-Tenda Coat Smooth BUR/Modified Bitumen Roof Installation Guide

3.04 Coating Application

- A. Refer to the following attachments for surface preparation and installation information:
 1. Attachment I – X-Tenda Coat EPDM/TPO/PVC Installation Guide
 2. Attachment II – X-Tenda Coat Metal Roof Installation Guide
 3. Attachment III – X-Tenda Coat Smooth BUR/Modified Bitumen Roof Installation Guide
- B. Do not apply coating if weather conditions will not permit complete cure (24 hour period) before rain, dew, fog or freezing temperatures occur. Apply coating in the same direction as the prevailing wind and if necessary use protective screens to contain overspray.
- C. Record the overall weather conditions, including surface temperature, surface moisture, ambient temperature, relative humidity and wind velocity at designated time intervals on the Daily Quality Control Report form.
- D. Using a high-pressure compressed air or an air blower, blow all dust, dirt and other contaminants off the roof surfaces.
- E. The X-Tenda Coat Acrylic must be applied in a minimum of 2 coats. Use a medium nap roller or airless sprayer to apply the coating. Extend the coating up and over all roof substrates on vent pipes, parapets and other protrusions to terminate a minimum of 3" above the substrate, creating a self-terminating flashing, and to provide an aesthetically pleasing appearance.

- F. When desired, the coating system can incorporate 40" wide X-Tenda Coat Reinforcing Mesh. Embed and encapsulate the end of the Reinforcing Mesh roll so that it is anchored at that point. Unroll the Reinforcing Mesh between 2 coats of X-Tenda Coat material, each applied at a rate of 1 to 1.5 gallons per square. Work the X-Tenda Coat evenly throughout the fabric using a roller or broom so that it is totally encapsulated, eliminating any air pockets, wrinkles or gaps. Take extra care to ensure that edges of the Reinforcing Mesh are well saturated and adhered. Overlap consecutive passes of Reinforcing Mesh a minimum of 2" on each side. Allow the X-Tenda Coat to dry thoroughly prior to applying any subsequent coatings to the roof.

Note: The Carlisle Authorized Applicator may elect to apply the X-Tenda Coat Acrylic in more than 2 application coats at a thinner wet film thickness. This will decrease the drying time between applications.

- G. To achieve the desired dry film thickness, Carlisle recommends the coverage rates as shown below.

X-Tenda Coat and Prime-and-Seal Coverage Rates		
Gallons per Square	Wet Film Thickness	Dry Film Thickness
3/4	12 mils	6 mils
1	16 mils	8 mils
1 to 1-1/4	20 mils	10 mils
1 to 1-1/2	24 mils	12 mils
X-Tenda Coat Plus K Coverage Rates		
Gallons per Square	Wet Film Thickness	Dry Film Thickness
3/4	12 mils	3 mils

- H. Allow the base coat to completely dry prior to application of the finish coat. Apply consecutive coats of X-Tenda Coat Acrylic in a perpendicular direction to the previous coat.

3.05 Coating Problems and Repairs

The following is a list of conditions that may occur during application and suggested repairs prior to the Acrylic Coating being fully cured.

- A. **Wash-off** (when the X-Tenda Coat Acrylic is not allowed to cure thoroughly)

Wash-off (chalk-like in appearance) may occur if rain or moisture comes in contact with the X-Tenda Coat Acrylic during or prior to curing. If wash-off occurs, the affected area must be power washed to remove coating residue prior to reapplying the X-Tenda Coat Acrylic.

- B. **Snow Flaking, Feathering and Spider Webbing**

This is an appearance that the finished coating may exhibit when the X-Tenda Coat Acrylic is applied and the surface reaches freezing temperatures before the coating is fully cured. This normally occurs within a 24-hour period from the time of application. Generally these areas will "self heal" when exposed to heat and sunlight. In the event that they would not "self heal", the affected surface must be power washed and Carlisle's X-Tenda Coat Acrylic must be reapplied.

- C. **Lifting**

This wrinkled appearance is caused when freezing of the coating occurs. The coating surface will exhibit extreme wrinkles and have loss of adhesion. These areas will not "self heal" and should be removed by scraping the surface with a putty knife, power washed and recoated with X-Tenda Coat Acrylic.

D. Blistering

Small blisters (approximately 1/8" diameter) that appear in the coated surface. Blisters are caused when the coating is applied to a surface area that has exceeded the recommended application temperature of 110°F(43°C) and prevents gases from escaping. Areas where blistering occurs, should be removed by scraping the surface with a putty knife and recoated with X-Tenda Coat Acrylic. Power washing is not required prior to re-applying the coating.

E. Mud Cracking

The coating is applied too heavy and the surface develops a skin preventing proper curing of the applied coating below causing the surface to crack. Mud cracking typically occurs at overlapping areas or "knit lines" in the coating process. Areas where mud cracking occurs must be removed by scraping surface with a putty knife, and new X-Tenda Coat applied.

3.06 Cleanup

- A. Maintain work and work areas in a clean, safe conditions at all times during application. Remove excess materials, trash and debris from the jobsite daily.
- B. At the completion of the project, clean area of any spills and containers, and clean up all roofing debris, leaving jobsite in a clean and orderly condition.
- C. Upon completion of the roof coating system, a copy of the completed "Daily Quality Control Form" should be forwarded to Carlisle to initiate a final inspection by a Carlisle Field Service Representative.

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ENERGY STAR is a registered trademark of the United States Government

Kynar is a registered trademark of Arkema, Inc.

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X-TENDA COAT

100% Acrylic Fluid Applied Elastomeric Coating System

“Attachment I”

X-Tenda Coat EPDM/TPO/PVC Installation Guide

January 2016

1.01 EPDM Surface Preparation

- A. Remove heavy deposits of dirt, leaves, pine needles and other debris using a broom or air-blower. Any rocks, branches or other large foreign objects should also be removed.
- B. X-Tenda Coat EPDM Activator can be applied directly over EPDM Surfaces containing small residual amounts of dirt, dust and other contamination.
- C. Wash surfaces containing heavy deposits of dirt with X-Tenda Coat General Purpose Cleaner prior to applying EPDM Activator.
- D. Apply using a Hudson-type agricultural sprayer or conventional or airless spray equipment.
 - 1. If using a Hudson sprayer, adjust nozzle to achieve a uniform pattern with a 3-4' arc.
 - 2. If using airless spray equipment, use a 0.015" to 0.019" reversible tip with a 40° to 50° fan angle.
- E. Safety glasses with side shields and latex gloves are recommended when transferring X-Tenda Coat EPDM Activator from the shipping container to the sprayer.
- F. Application rate is 500 square feet per gallon over new or existing EPDM Surfaces.
- G. Allow X-Tenda Coat EPDM Activator to stand a minimum of 20 minutes to wet out and react with the EPDM Surface.
- H. Rinse with clean water using a minimum 2,000 psi pressure washer, with a maximum fan pattern of 10".
- I. Begin the power rinse at the lowest point on the roof and work upwards, keeping the pressure washer tip within 12" of the EPDM surface.
- J. Once the highest point on the roof is reached, work down again with a final rinse.
- K. After cleaning, the roof should be jet black in color, which is an indication, that the surface is ready for coating.
- L. Allow surfaces to dry thoroughly prior to application of X-Tenda Coat.
- M. Clean equipment with water and biodegradable detergent, such as X-Tenda Coat General Purpose Cleaner.
- N. Prior to storing for any length of time, purge the water from the hoses, using mineral spirits.
- O. Reinforce all repaired areas, roof termination points, vents, pipes or other protrusions using one of the following methods. Rough textured areas shall be leveled using X-Tenda Coat Flashing Grade:

1. Apply a base coat of X-Tenda Coat liberally along the area to be detailed using a brush or roller. While the base coat is still wet, embed a strip of reinforcing mesh centered over the seam, joint or interface. Work the mesh into the base coat to totally encapsulate the reinforcing fabric eliminating any air pockets, gaps or wrinkles. Apply additional X-Tenda Coat material if necessary. X-Tenda Coat Flashing Grade can be used for encapsulating the reinforcing mesh over wide gaps and textured or uneven surfaces.
 2. Liberally apply a minimum 2 coats of X-Tenda Coat Flashing Grade around the repaired area, using a brush or roller, to a total thickness of 60 to 80 dry mils.
- P. Refasten all metal edge flanges and reinforce the area with one of the two methods described in 1.01 O above.

1.02 TPO/PVC Surface Preparation

- A. Remove heavy deposits of dirt, leaves, pine needles and other debris using a broom or air-blower. Any rocks, branches or other large foreign objects should also be removed.
- B. Wash surfaces containing heavy deposits of dirt with X-Tenda Coat General Purpose Cleaner prior to applying X-Tenda Coat Basecoat (TPO) or X-Tenda Coat Prime-and-Seal (PVC) or T-23 Primer (TPO & PVC).
- C. For best results, dilute X-Tenda Coat General Purpose Cleaner at a 1 to 10 ratio.
- D. Apply using a Hudson-type agricultural sprayer or conventional or airless spray equipment.
 1. If using a Hudson sprayer, adjust nozzle to achieve a uniform pattern with a 3-4' arc.
 2. If using airless spray equipment, use a 0.015" to 0.019" reversible tip with a 40° to 50° fan angle.
- E. Safety glasses with side shields and latex gloves are recommended when transferring X-Tenda Coat General Purpose Cleaner from the shipping container to the sprayer.
- F. Application rate is 150 to 200 square feet per gallon (in diluted form) over existing TPO/PVC Surfaces.
- G. Allow X-Tenda Coat General Purpose Cleaner to stand a minimum of 15 minutes to penetrate and lift the surface dirt.
- H. Rinse with clean water using a minimum 2,000 psi pressure washer, with a maximum fan pattern of 10".
- I. Begin the power rinse at the lowest point on the roof and work upwards, keeping the pressure washer tip within 12" of the TPO surface.
- J. Once the highest point on the roof is reached, work down again with a final rinse.
- K. Allow surfaces to dry thoroughly prior to application of X-Tenda Coat coating (TPO) or X-Tenda Coat Prime-and-Seal (PVC).
- L. Clean equipment with water and biodegradable detergent, such as X-Tenda Coat General Purpose Cleaner.
- M. Prior to storing for any length of time, purge the water from the hoses, using mineral spirits.
- N. Reinforce all repaired areas, roof termination points, vents, pipes or other protrusions using one of the following methods. Rough textured areas shall be leveled using X-Tenda Coat Flashing Grade:
 1. Apply a base coat of X-Tenda Coat liberally along the area to be detailed using a brush or roller. While the base coat is still wet, embed a strip of reinforcing mesh centered over the seam, joint or interface. Work the mesh into the base coat to totally encapsulate the reinforcing fabric eliminating any air pockets, gaps or wrinkles. Apply additional X-Tenda Coat material if necessary. X-Tenda Coat Flashing Grade can be used for encapsulating the reinforcing mesh over wide gaps and textured or uneven surfaces.
 2. Liberally apply a minimum 2 coats of X-Tenda Coat Flashing Grade around the repaired area, using a brush or roller, to a total thickness of 60 to 80 dry mils.

- O. Refasten all metal edge flanges and reinforce the area with one of the two methods described in 1.01 N above.
- P. Required for TPO and PVC membranes less than one year old; Highly recommended for TPO and PVC membranes aged greater than one year. Apply X-Tenda Coat T-23 Primer at a rate of 200-300 square feet per gallon using an airless sprayer or a roller. Allow T-23 Primer to completely dry before applying base coats and top coats.

1.03 EPDM/TPO Base Coating Application

- A. All roof preparation materials shall be allowed to dry prior to the application of acrylic coating. Immediately prior to application of the acrylic coating system, all dust, dirt and other contaminants shall be blown off using high pressure compressed air.
- B. Use a power mixer to uniformly mix the entire container prior to use.
- C. Over EPDM/TPO apply a base coat of X-Tenda Coat Acrylic using a medium nap roller or airless spray at a rate based on warranty type and duration below. Allow to dry thoroughly prior to applying any subsequent coatings. Use water and General Purpose Cleaner to flush equipment.
- D. The entire roof substrate shall receive a Base Coat as follows:
 - 1. Apply Base Coat of X-Tenda Coat using a medium nap roller or airless spray equipment, using multi-pass spray technique to ensure even application. Apply subsequent coats in a perpendicular direction to the previous coat. Use the specified amount for the desired warranty.
 - a. Material Warranty – 5 year = 1.0 gallons per square
 - b. Material Warranty – 10 year = 1.5 gallons per square
 - c. Limited System Warranty – 5 year = 1.5 gallons per square
 - d. Limited System Warranty – 10 year = 2 coats at 1.0 gallons per square
 - 2. Allow the Base Coat to dry completely prior to the application of subsequent coats.
- E. X-Tenda Coat shall extend up and over all roof substrates on vent pipes, parapets and other protrusions to terminate a minimum of 3" (8cm) above the substrate, creating a self-terminating flashing.
- F. It is often easier to visually see splits, tears or other damage in the EPDM surface after application of the first coat of X-Tenda Coat. For this reason, the roof surface should be inspected after application of the first coat for any damage that was not detailed previously. These areas can be repaired and reinforced using Coating-Ready Cover Tape.

1.04 PVC Base Coating Application

- A. All roof preparation materials shall be allowed to dry prior to the application of acrylic coating. Immediately prior to application of the acrylic coating system, all dust, dirt and other contaminants shall be blown off using high pressure compressed air.
- B. Use a power mixer to uniformly mix the entire container prior to use.
- C. Over PVC apply a base coat of X-Tenda Coat Prime-And-Seal using a medium nap roller or airless spray at a rate based on warranty type and duration below. Allow to dry thoroughly prior to applying any subsequent coatings. Use water and General Purpose Cleaner to flush equipment.
- D. The entire roof substrate shall receive a Base Coat as follows:
 - 1. Apply Base Coat of X-Tenda Coat Prime-and-Seal or X-Tenda Coat coating using a medium nap roller or airless spray equipment, using multi-pass spray technique to ensure even application. Apply subsequent coats in a perpendicular direction to the previous coat. Use the specified amount for the desired warranty.
 - a. Material Warranty – 5 year = 1.0 gallons per square

- b. Material Warranty – 10 year = 1.5 gallons per square
- c. Limited System Warranty – 5 year = 1.5 gallons per square
- d. Limited System Warranty – 10 year = 2 coats at 1.0 gallons per square

2. Allow the Base Coat to dry completely prior to the application of subsequent coats.

- E. X-Tenda Coat Prime-and-Seal shall extend up and over all roof substrates on vent pipes, parapets and other protrusions to terminate a minimum of 3" (8cm) above the substrate, creating a self –terminating flashing.
- F. It is often easier to visually see splits, tears or other damage in the EPDM surface after application of the first coat of X-Tenda Coat. For this reason, the roof surface should be inspected after application of the first coat for any damage that was not detailed previously. These areas can be repaired and reinforced using Coating-Ready Cover Tape.

1.05 EPDM/TPO/PVC Top Coating Application

- A. All roof preparation materials shall be allowed to dry prior to the application of acrylic coating. Immediately prior to application of the acrylic coating system, all dust, dirt and other contaminants shall be blown off using high pressure compressed air.
- B. Over EPDM/TPO/PVC apply X-Tenda Coat Acrylic using a medium nap roller or airless spray at a rate of 1/2 gallon per square. Allow to dry thoroughly prior to applying any subsequent coatings.
- C. When desired, the coating system can incorporate 40" wide X-Tenda Coat Reinforcing Mesh. Embed and encapsulate the end of the Reinforcing Mesh roll so that it is anchored at that point. Unroll the Reinforcing Mesh between 2 coats of X-Tenda Coat material, each applied at a rate of 1 to 1.5 gallons per square. Work X-Tenda Coat evenly throughout the fabric using a roller or broom so that it is totally encapsulated, eliminating any air pockets, wrinkles or gaps. Take extra care to ensure that edges of the Reinforcing Mesh are well saturated and adhered. Overlap consecutive passes of Reinforcing Mesh a minimum of 2" on each side. Allow the coating to dry thoroughly prior to applying any subsequent coatings to the roof.
- D. The entire roof substrate shall receive the X-Tenda Coat Acrylic Coating System as follows:
 - 1. Apply X-Tenda Coat Acrylic using a medium nap roller or airless spray equipment, using multi-pass spray technique to ensure even application. Apply subsequent coats in a perpendicular direction to the previous coat. Use the specified amount for the desired warranty.
 - a. Material Warranty – 5 year = 1 gallons per square
 - b. Material Warranty – 10 year = 1 coat at 1.0 gallons per square
 - c. Limited System Warranty – 5 year = 1 coat at 1.0 gallons per square
 - d. Limited System Warranty – 10 year = 1 coat at 1.25 gallons per square
- E. X-Tenda Coat shall extend up and over all roof substrates on vent pipes, parapets and other protrusions to terminate a minimum of 3" (8cm) above the substrate, creating a self –terminating flashing.

X-TENDA COAT

100% Acrylic Fluid Applied Elastomeric Coating System

“Attachment II”

X-Tenda Coat Metal Roof Installation Guide

January 2016

1.01 Metal Roof Surface Preparation

- A. Metal surfaces to be coated shall be clean, dry, sound, and free of dirt, grease, oil and any other contaminants that might interfere with the adhesion of the elastomeric coating.
- B. All mechanical fasteners shall be checked for integrity. Retighten or replace as necessary. “Stripped out” fasteners shall be replaced using a larger diameter fastener.
- C. Unsound rust shall be wire brushed, sandblasted or mechanically abraded to remove all loose rust. Metal panels deteriorated to the point that their structural integrity is compromised shall be replaced.
- D. Remove excessive amounts of asphaltic-based or other deteriorated patching or flashing materials if present.
- E. Check all seams to ensure that they are tight and flush. Excessive gaps or deflection between panels shall be eliminated by installing additional fasteners or rivets as necessary to limit deflection to 1/4” (6mm) or less.
- F. All metal surfaces, whether new or existing, shall be cleaned using X-Tenda Coat General Purpose Cleaner. Dilute at a rate of 1 part concentrate to 10 parts water. Apply the diluted mixture under low pressure spray at a rate of 200 square feet per gallon and allow standing for 15 minutes. Rinse thoroughly with minimum 2,000 psi water to remove the solution from the roof along with any existing loose paint or coating. Heavy deposits of dirt or contamination may require agitation with a stiff bristle broom. Allow the roof to dry thoroughly.
- G. All existing “sound” rusted areas shall be primed with X-Tenda Coat Metal Primer.
 - 1. Prior to application of X-Tenda Coat Metal Primer, **abrade** the existing material to a feathered edge where the surface may have been previously treated.
 - 2. For flash or lightly rusted areas apply X-Tenda Coat Metal Primer using airless spray equipment at a rate of 200 square feet per gallon.
 - 3. For medium or heavily rusted areas apply 2 coats of X-Tenda Coat Metal Primer using airless spray equipment at a rate of 300 square feet per gallon.
 - 4. X-Tenda Coat Metal Primer can be coated with Prime-and-Seal Base Coat as soon as it is thoroughly dried but not later than 48 hours past initial application.
- H. If the existing roof has been coated with Aluminized asphalt contact Carlisle for an appropriate primer.
- I. Fill gaps between 1/4” and 1/2” (6-13mm) at panel seams, joints and protrusions with an approved caulking. Fill gaps larger than 1/2” (13mm) such as the ridge cap, roof edge and/or interface of dissimilar materials with a polyethylene backer rod or polyurethane foam like Flexible FAST Adhesive.
- J. Reinforce all vertical (side-lap) seams that have not been factory crimped or pre-sealed, roof terminations/flashings around drains, scuppers, skylights, vents, conduits, HVAC equipment, or other protrusions using one of the following methods:

1. Apply Prime-and-Seal base coat liberally along the area to be detailed using a brush or roller. While the base coat is still wet, embed a strip of reinforcing mesh centered over the seam, joint or interface. Work the mesh into the base coat to totally encapsulate the reinforcing fabric. Apply additional Prime-and-Seal base coat material if necessary. X-Tenda Coat Flashing Grade can be used for encapsulating the reinforcing mesh over wide gaps and textured or uneven surfaces.
 2. Cut Coating-Ready Cover Tape to the desired length, remove the poly release backing and center over the detail area. Press firmly into place using caution to avoid wrinkles or bubbles. Roll the Coating-Ready Cover Tape with a 2" Seam Roller.
- K. Reinforce all horizontal (end-lap) seams or the interface between metal with a dissimilar material using one of the following methods:
1. Apply Prime-and-Seal base coat liberally along the area to be detailed using a brush or roller. While the base coat is still wet, embed a minimum 6" wide strip of reinforcing mesh centered over the seam, joint or interface. Work the mesh into the base coat to totally encapsulate the reinforcing fabric. Apply additional Prime-and-Seal base coat material if necessary. X-Tenda Coat Flashing Grade can be used for encapsulating the reinforcing mesh over wide gaps and textured or uneven surfaces.
 2. Cut Coating-Ready Cover Tape to the desired length, remove the poly release backing and center over the detail area. Press firmly into place using caution to avoid wrinkles or bubbles. Roll the Coating-Ready Cover Tape with a 2" Seam Roller.
- L. All fastener heads shall be treated using one of the following methods:
1. Apply X-Tenda Coat Flashing Grade to completely encapsulate the screw head and seal the base of the fastener to the deck.
 2. Apply X-Tenda Coat Fastener Caps by centering the cap over the fastener head and pressing the cap firmly into place to seal the cap flush around the base of the fastener head.

1.02 Metal Roof Coating Application

- A. All roof preparation materials shall be allowed to dry prior to the application of acrylic coating. Immediately prior to application of the acrylic coating system, all dust, dirt and other contaminants shall be blown off using high pressure compressed air.
- B. The entire roof substrate shall receive the X-Tenda Coat Acrylic Coating System as follows:
1. Apply Prime-and-Seal Base Coat using airless spray equipment, using multi-pass spray technique to ensure even application to all sides of metal panel corrugations. Make a conscious effort to apply coating into crimped or pre-sealed vertical (side-lap) seams that have not been detailed. Use the specified amount for the desired warranty.
 - a. Material Warranty – 5 year = 1 gallon per square
 - b. Material Warranty – 10 year = 1.25 gallons per square
 2. Allow the Base Coat to dry completely prior to the application of subsequent coats.
 3. Apply X-Tenda Coat Acrylic using airless spray equipment, using multi-pass spray technique to ensure even application to all sides of metal panel corrugations. Make a conscious effort to apply coating into crimped or pre-sealed vertical (side-lap) seams that have not been detailed. Use the specified amount for the desired warranty.
 - a. Material Warranty – 5 year = 1 gallon per square
 - b. Material Warranty – 10 year = 1.25 gallons per square
- C. X-Tenda Coat Top Coat and Prime-and-Seal Base Coat shall extend up and over all roof substrates on vent pipes, parapets and other protrusions to terminate a minimum of 3" (8cm) above the substrate, creating a self – terminating flashing.

X-TENDA COAT

100% Acrylic Fluid Applied Elastomeric Coating System

“Attachment III”

X-Tenda Coat Smooth BUR/Modified Bitumen Roof Installation Guide

January 2016

1.01 Surface Preparation

- A. All surfaces to be coated shall be clean, dry, sound, and free of dirt, grease, oil and any other contaminants that might interfere with the adhesion of the elastomeric coating. Mineral surfaced modified bitumen membranes shall be swept clean to remove all loose or partially embedded minerals. Care should be taken to preserve the integrity of the existing asphalt membrane whenever possible.
- B. All modified bitumen surfaces shall be cleaned using X-Tenda Coat General Purpose Cleaner. Dilute at a rate of 1 part concentrate to 10 parts water. Apply the diluted mixture under low pressure spray at a rate of 200 square feet per gallon and allow standing for 15 minutes. Rinse thoroughly with minimum 2,000 psi water to remove the solution from the roof to achieve a clean surface. Heavy deposits of dirt or contamination may require agitation with a stiff bristle broom. Allow the roof to dry thoroughly.
- C. Any unsound areas in the roof membrane or insulation, including blisters, delamination, deterioration, excessive moisture content, etc. shall be repaired or replaced. Blisters, delaminations, wrinkles and loose areas shall be cut away and removed or cut open and nailed flat to the deck.
- D. If the existing roof has been coated with Aluminized asphalt contact Carlisle for an appropriate primer.
- E. Reinforce all repaired areas, roof termination points, vents, pipes or other protrusions using one of the following methods. Rough textured areas shall be leveled using X-Tenda Coat Flashing Grade:
 - 1. Apply Prime-and-Seal base coat liberally along the area to be detailed using a brush or roller. While the base coat is still wet, embed a strip of reinforcing mesh centered over the seam, joint or interface. Work the mesh into the base coat to totally encapsulate the reinforcing fabric eliminating any air pockets, gaps or wrinkles. Apply additional Prime-and-Seal base coat material if necessary. X-Tenda Coat Flashing Grade can be used for encapsulating the reinforcing mesh over wide gaps and textured or uneven surfaces.
 - 2. Liberally apply a minimum 2 coats of X-Tenda Coat Flashing Grade around the repaired area, using a brush or roller, to a total thickness of 60 to 80 dry mils.
- F. Refasten all metal edge flanges and reinforce the area with one of the two methods described in 1.01 E above.
- G. Roof areas to be coated shall have positive slope-to-drain. Tapered insulation or crickets and new waterproofing material shall be installed to correct any drainage problems.

1.02 Coating Application

- A. All roof preparation materials shall be allowed to dry prior to the application of acrylic coating. Immediately prior to application of the acrylic coating system, all dust, dirt and other contaminants shall be blown off using high pressure compressed air.

- B. Over modified bitumen apply X-Tenda Coat Prime-and-Seal using a medium nap roller or airless spray at a rate of 1/2 gallon per square. Allow to dry thoroughly prior to applying any subsequent coatings.
- C. When desired, the coating system can incorporate 40" wide X-Tenda Coat Reinforcing Mesh. Embed and encapsulate the end of the Reinforcing Mesh roll so that it is anchored at that point. Unroll the Reinforcing Mesh between 2 coats of Roof Mate LP material, each applied at a rate of 1 to 1.5 gallons per square. Work the Roof Mate LP evenly throughout the fabric using a roller or broom so that it is totally encapsulated, eliminating any air pockets, wrinkles or gaps. Take extra care to ensure that edges of the Reinforcing Mesh are well saturated and adhered. Overlap consecutive passes of Reinforcing Mesh a minimum of 2" on each side. Allow the coating to dry thoroughly prior to applying any subsequent coatings to the roof.
- D. The entire roof substrate shall receive the X-Tenda Coat Acrylic Coating System as follows:
1. Apply Prime-and-Seal Base Coat using a medium nap roller or airless spray equipment, using multi-pass spray technique to ensure even application. Apply subsequent coats in a perpendicular direction to the previous coat. Use the specified amount for the desired warranty.
 - a. Material Warranty – 5 year = 1.6 gallons per square
 - b. Material Warranty – 10 year = 1.75 gallons per square
 2. Allow the Base Coat to dry completely prior to the application of subsequent coats.
 3. Apply X-Tenda Coat Acrylic Topcoat using a medium nap roller or airless spray equipment, using multi-pass spray technique to ensure even application. Apply subsequent coats in a perpendicular direction to the previous coat. Use the specified amount for the desired warranty.
 - a. Material Warranty – 5 year = 1.6 gallons per square
 - b. Material Warranty – 10 year = 2 coats at 1.25 gallons per square
- E. X-Tenda Coat Topcoat and Prime-and-Seal Base Coat shall extend up and over all roof substrates on vent pipes, parapets and other protrusions to terminate a minimum of 3" (8cm) above the substrate, creating a self – terminating flashing.