

CARLISLE'S **X-TENDA COAT™ PRIME-AND-SEAL**



Overview

X-Tenda Coat Prime-and-Seal is a water-based, high solids elastomeric base coat utilizing the latest advances in acrylic-technology. High quality 100% acrylic resins are combined with reinforcing, laminar pigments, an effective biocide package and non-migrating fire retardants, resulting in superior durability, weatherproofing, ultraviolet resistance, algae/mildew resistance and fire resistance. It is available in white and gray.

Intended Uses

Prime-and-Seal was designed to perform as a base coat in restoration systems to extend the life of existing PVC, Hypalon®, Metal, Smooth BUR, SBS and APP Modified Bitumen roofs. The X-Tenda Coat 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.

Features and Benefits

- Color change
- Waterproofing layer
- Watertight warranty available

Application*

1. All surface preparation materials shall be allowed to fully dry prior to application of the X-Tenda Coat system.
2. Immediately prior to application of the acrylic coating system, all dust or debris shall be blown off the roof surfaces to be coated using high-pressure compressed air.
3. Use a power mixer to uniformly mix the entire container prior to use.
4. Apply a base coat at the specified rate using a medium nap roller or airless spray equipment rated at a minimum output of 1 gallon per minute at 2,000 psi with a reversible self cleaning spray tip with an opening between .027" and .039". Use water and General Purpose Cleaner to flush equipment.
5. Use Prime-and-Seal Acrylic as the base coat on PVC, Hypalon, Metal and Asphalt substrates.
6. Prime-and-Seal must extend up 3" over all roof substrates including vent pipes, walls or other protrusions. Extend coating up and under all counter-flashings.
7. Do not apply Prime-and-Seal when the dew point is within 5°F of the surface temperature, when temperatures will fall below 32°F or if rain is forecasted within a 24-hour period.
8. Do not apply Prime-and-Seal when the ambient or surface temperature is below 50°F or above 140°F.
9. It is often easier to visually see splits, tears or other damage in the surface after application of the first coat of Prime-and-Seal. 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.
10. After allowing the base coat to dry, apply subsequent coats of the appropriate material at a maximum rate of 1.5 gallons per square or 24 wet mils (12 dry mils).
11. Apply subsequent coats in a perpendicular direction to the previous coat.

* REVIEW CURRENT CARLISLE SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

CARLISLE'S X-TENDA COAT PRIME-AND-SEAL

Coverage Rates

Gallons Per Square	Wet Film Thickness	Dry Film Thickness
¾	12 mils	6 mils
1	16 mils	8 mils
1¼	20 mils	10 mils
1½	24 mils	12 mils

Installation

Always review the appropriate Product Data Sheets and MSDS's for all of the Carlisle products used in your system before starting the project.

Mixing

Use a power mixer capable of uniformly mixing the entire container prior to use. Prime-and-Seal is easily pumped and sprayed at material temperatures of 60°F (16°C) or greater. Reducing the mixture or thinning is not permitted, as it affects the coatings ability to achieve a heavy film build with excellent vertical hold and hide.

Surface Preparation

- All surfaces must be clean and dry, and free of any dirt, dust, oil, surface chemicals, or other contaminants that may interfere with optimum adhesion.
- Use General Purpose Cleaner for non-EPDM surfaces and high pressure power washing equipment to clean surfaces that are contaminated with oil, grease, loose paint or coating. Rinse thoroughly with clean water to remove all traces of General Purpose Cleaner.
- Metal Primer is required to pre-treat rusted areas on Standing Seam Metal decks.
- Areas of excessive ponding water must be addressed by adding drains or adding slope to drains. Acrylic coatings do not stay adhered to the substrate in areas where ponded water accumulates up to 48 hours after a rain event. Delamination of the coating due to ponded water is not covered by the material or system warranty.
- Any unsound areas in the roof like blisters, ridges, delamination, deterioration, moisture saturation, sharp projections etc., shall be repaired or replaced prior to coating. See specification for complete information on repairs and edge detailing.

Precautions

1. Review the applicable Material Safety Data Sheet for complete safety information prior to use.
2. Jobsite storage temperatures in excess of 90°F (32°C) may affect product shelf life. DO NOT ALLOW TO FREEZE. Do not store sealed containers in prolonged sunlight.
3. Avoid breathing vapors. Keep container closed when not in use. Use with adequate ventilation. If inhaled, move to fresh air. If not breathing, perform artificial respiration. If breathing is difficult give oxygen. Call a physician immediately.
4. If swallowed, DO NOT INDUCE VOMITING, call a physician immediately.
5. Avoid contact with eyes. Safety glasses or goggles are recommended. If splashed in eyes, immediately flush eyes with plenty of clean water for at least 15 minutes. Contact a physician immediately.
6. Avoid contact with skin. Wash thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water.
7. Do not thin Prime-and-Seal. Thinning will affect performance and may coagulate the coating.
8. Do not apply coating in areas that pond water for more than 48 hours after a rain event.
9. Custom color top coats of X-Tenda Coat require written approval of physical draw down samples.
10. Dark color top coats require the use of X-Tenda Coat Plus-K as the top coat to avoid mud-cracking.

CARLISLE'S X-TENDA COAT PRIME-AND-SEAL

Prime-and-Seal		
Typical Properties and Characteristics*		
Test	Test Method	Results
% Solids By Weight	ASTM 2369	66% (± 2%)
% Solids By Volume	ASTM 05201	51% (± 2%)
Weight Per Gallon	ASTM 01475	11.8 lbs (1.41 kg/l)
Dry Time for Water Resistance	N/A	3 hrs at 70°F (21°C), 50% R.H., 1 gal./sq. Dry time will increase at higher humidity
Tensile Strength	ASTM 0412	200 psi
Elongation	ASTM 0412	180%
Hardness, Shore A	ASTM 02240	65 ± 5
Permeance (perms)	ASTM E96	2.7

* Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification or specification range for any particular property of this product.

X-Tenda Coat Acrylic – Material Warranty

Aged Roof	Surface Preparation	Base Coat	Top Coat	5-year		10-year	
				Dry Mils	Gal/Sq	Dry Mils	Gal/Sq
EPDM	EPDM Activator	XC	XC	16	2	20	2.5
TPO	General Purpose Cleaner	XC	XC	16	2	20	2.5
PVC	General Purpose Cleaner	P&S	XC	16	2	20	2.5
Hypalon	General Purpose Cleaner	P&S	XC	16	2	20	2.5
Metal	GPC and Metal Primer	P&S	XC	16	2	20	2.5
Smooth BUR	General Purpose Cleaner	P&S	XC	24	3	28'	3.5'
APP	General Purpose Cleaner	P&S	XC	24	3	28'	3.5'
SBS	General Purpose Cleaner	P&S	XC	24	3	28'	3.5'

X-Tenda Coat Acrylic – System Warranty

Aged Roof	Surface Preparation	Base Coat	Top Coat	5-year		10-year	
				Dry Mils	Gal/Sq	Dry Mils	Gal/Sq
EPDM	EPDM Activator	XC	XC	20	2.5	26'	3.25'
TPO	General Purpose Cleaner	XC	XC	20	2.5	26'	3.25'
PVC	General Purpose Cleaner	P&S	XC	20	2.5	26'	3.25'
Hypalon	General Purpose Cleaner	P&S	XC	20	2.5	26'	3.25'
Metal	GPC and Metal Primer	P&S	XC	20	2.5	26'	3.25'
Smooth BUR	General Purpose Cleaner	P&S	XC	28'	3.5'	32'	4'
APP	General Purpose Cleaner	P&S	XC	28'	3.5'	32'	4'
SBS	General Purpose Cleaner	P&S	XC	28'	3.5'	32'	4'

XC = X-Tenda Coat, XC+K = X-Tenda Coat Plus-K (Top Coat applied at a dry mil thickness of 3-mils) P&S = Prime-and-Seal, GPC = General Purpose Cleaner
NOTE: Consult specifications and Product Data Sheets for coverage rates and other installation requirements.

1 = A minimum of 3 coats are required to achieve this dry mil thickness

CARLISLE'S X-TENDA COAT PRIME-AND-SEAL

ENERGY STAR®* and CRRC Data

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® Info

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
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

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