

X-TENDA COAT™

Acrylic Coating



Overview

Carlisle's X-Tenda Coat Acrylic Coating is a water-based, high-solids elastomeric coating that provides excellent durability, weatherproofing, and resistance to fire, UV, algae, and mildew. Available in white, gray, and tan colors, Carlisle's white X-Tenda Coat meets ENERGY STAR®*, Cool Roof Rating Council (CRRC), and LEED® criteria for reflectance and emissivity.

Designed to perform as a color coating as well as a weathering surface, Carlisle's X-Tenda Coat can significantly extend the life of existing EPDM, TPO, PVC, Hypalon®, metal, smooth BUR, SBS, and APP modified bitumen roofs. X-Tenda Coat forms a waterproof elastomeric seal, uniformly covering the textured profile of various substrates to form a monolithic membrane and providing protection from weathering, aging, and ultraviolet exposure. X-Tenda Coat is classified as a UL Class A Fluid-Applied Coating System and maintains existing UL classification of existing assembly.

Features and Benefits

- » Can be used to extend the service life of an existing roofing system
- » Effective waterproofing layer
- » Performs as a color coating as well as a weathering surface
- » Resistant to fire, UV, algae, and mildew

Surface Preparation

- » All surfaces must be clean, dry, and free of any dirt, dust, oil, surface chemicals, or other contaminants that may interfere with optimum adhesion.

- » Use X-Tenda Coat 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.
- » X-Tenda Coat Metal Primer is required to pre-treat rusted areas on standing seam metal decks.
- » X-Tenda Coat EPDM Activator and high-pressure power washing equipment is required to pre-treat and clean EPDM.
- » Areas of excessive ponding water must be addressed by adding drains or adding slope to existing drains. Acrylic coatings do not stay adhered to the substrate in areas where ponded water accumulates for more than 48 hours after a rain event. Delamination of the coating due to ponded water is not covered by material or system warranties.
- » Any unsound areas in the roof, including blisters, ridges, delamination, deterioration, moisture saturation, and sharp projections shall be repaired or replaced prior to coating. See specification for complete information on repairs and edge detailing.

Application

1. All surface preparation materials must be 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 using a reversible self-cleaning spray tip with an opening between .027" and .039". Use water and X-Tenda Coat General Purpose Cleaner to flush equipment.
5. Use X-Tenda Coat Prime-and-Seal Acrylic as the base coat on PVC, Hypalon, metal, and asphalt substrates.
6. Use X-Tenda Coat Acrylic as the base coat on EPDM and TPO substrates.
7. T-23 Primer must be used on TPO and PVC membranes.

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Coverage Rates

Gallons Per Square	Wet Film Thickness	Dry Film Thickness
¾	12 mils	6 mils
1	16 mils	8 mils
1 ¼	20 mils	10 mils
1 ½	24 mils	12 mils

- X-Tenda Coat must extend up 3" over all roof substrates including vent pipes, walls, or other protrusions. Extend coating up and under all counter-flashings.
- Do not apply X-Tenda Coat 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.
- Do not apply X-Tenda Coat when the ambient or surface temperature is below 50°F or above 140°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 X-Tenda Coat Coating-Ready Cover Tape.
- After allowing the base coat to dry, apply subsequent coats at a maximum rate of 1.5 gallons per square or 24 wet mils (12 dry mils).
- Apply subsequent coats in a perpendicular direction to the previous coat.

Review Carlisle specifications and details for complete application information.

Mixing

Use a power mixer capable of uniformly mixing the entire container prior to use. X-Tenda Coat 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 coating's ability to achieve a heavy film build.

Precautions

- » Review the applicable Safety Data Sheet for complete safety information prior to use.
- » 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.
- » 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.
- » If swallowed, DO NOT INDUCE VOMITING, call a physician immediately.
- » 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.
- » Avoid contact with skin. Wash thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water.
- » Do not thin this product. Thinning will affect performance and may coagulate the coating.
- » Do not apply coating in areas that pond water for more than 48 hours after a rain event.
- » Custom colors require written approval of physical draw-down samples.
- » Dark colors require the use of X-Tenda Coat Plus-K as the top coat to avoid mud-cracking.

Typical Properties and Characteristics

Test	Test Method	Results
% Solids by Weight	ASTM 2369	60% (± 2%)
% Solids by Volume	ASTM 05201	54% (± 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	250 psi
Elongation	ASTM 0412	300%
Hardness, Shore A	ASTM 02240	60 ± 5
Permeance (perms)	ASTM E96	3.0
UV Resistance	ASTM G23	5,000 hl's
High Temperature Resistance	ASTM 0794	No age hardening up to 2500°

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 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 and T-23	XC	XC	16	2	20	2.5
PVC	General Purpose Cleaner and T-23	P&S or XC	XC	16	2	20	2.5
Hypalon	General Purpose Cleaner	P&S or XC	XC	16	2	20	2.5
Metal	General Purpose Cleaner and Metal Primer	P&S or XC	XC	16	2	20	2.5
Smooth BUR	General Purpose Cleaner	P&S or XC	XC	24	3	28 ¹	3.5 ¹
APP	General Purpose Cleaner	P&S or XC	XC	24	3	28 ¹	3.5 ¹
SBS	General Purpose Cleaner	P&S or XC	XC	24	3	28 ¹	3.5 ¹

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 and T-23	XC	XC	20	2.5	26	3.25
PVC	General Purpose Cleaner and T-23	P&S or XC	XC	20	2.5	26	3.25

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

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

NOTE: Only on an existing Carlisle Roof. Consult specifications and Product Data Sheets for coverage rates and other installation requirements.

ENERGY STAR and CRRC Data

Physical Property	Test Method	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	0.84	0.71	0.46	0.87
ENERGY STAR – Solar Reflectance After 3 Years (Uncleaned)	SSR	0.57	Pending	0.37	0.77
CRRC – Initial Solar Reflectance	ASTM C1549	0.84	0.71	0.46	0.87
CRRC – Solar Reflectance After 3 Years (Uncleaned)	ASTM C1549	0.57	Pending	0.37	0.77
CRRC – Initial Thermal Emittance	ASTM C1371	0.89	0.93	0.89	0.87
CRRC – Initial Thermal Emittance After 3 Years (Uncleaned)	ASTM C1371	0.89	Pending	0.89	0.87

LEED Info

Physical Property	Test Method	White X-Tenda Coat	Light Tan X-Tenda Coat	Light Gray X-Tenda Coat	White X-Tenda Coat Plus-K
Thermal Emittance	ASTM E408	0.94	0.94		
Solar Reflective Index (SRI)	ASTM E1980	105	88	53	110
Pre-consumer Recycled Content		0%	0%	0%	0%
Post-consumer Recycled Content		0%	0%	0%	0%
VOC Content g/L		7	7	7	192
Manufacturing Location		Phoenix, AZ	Phoenix, AZ	Phoenix, AZ	Phoenix, AZ

EXPERIENCE THE CARLISLE DIFFERENCE



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