



PRODUCT PROFILE

DESCRIPTION

TEX-COTE® METAL-PRIME™ PRIMER is a water-based, ready-to-use primer specifically formulated to offer good corrosion protection and adhesion to metal surfaces. It utilizes state-of-the-art acrylic polymer technology designs for maximum adhesion to metal surfaces and also assures optimum adhesion of a variety of topcoats applied over it.

FEATURES

- Water-Based Acrylic Formulation
- Superior Adhesion to Metal Surfaces
- Good Corrosion Protection
- Fast Drying
- Single Component Product
- Low VOC

BENEFITS

- User-Friendly Formula
- Assures Good Adhesion of Topcoats to Aluminum or Galvanized Surfaces
- Can Be Applied by Airless Spray, Brush, or Roller
- Easy to Clean-up with Soap and Water
- Low Odor

RECOMMENDED PRIMERS/SUBSTRATES

Aluminum, Galvanized Steel, Iron and Steel, Previously Painted/Baked-On Metal Finishes Including Well-Weathered KYNAR® 500 Surfaces

PRODUCT APPLICATION

APPLICATION EQUIPMENT

- Conventional Airless Spray with .013 - .015 Tip.
- Medium Nap (3/8" - 1/2") Roller
- High-Quality Nylon/Polyester Bristle Brush

GENERAL/SURFACE PREPARATION

All surfaces must be sound, clean, and dry prior to application of primer. Remove all loose chipping, cracking, and peeling from previously painted surface by hand-scraping, abrasive and wire-brushing, and/or by use of power tool cleaning methods such as electric sanders, grinders, etc. Remove any dust, dirt, grease, oils, waxes, mildew, loose rust, mill scale, rust deposits, or any other surface contaminants from metal surfaces by hand or power tool cleaning according to SSPC-SP2 or SSPC-SP3 standards.

ALUMINUM AND GALVANIZED METAL

Bare aluminum and particularly galvanized steel can vary dramatically in their surface properties. Old galvanized will have surface oxides that must be removed by wire brush or brush blasting, being careful to try not to cut entirely through the zinc treatment layer, if possible. New galvanized metal will vary in its degree of "spangle" pattern and commonly is contaminated with protective oils and passivators, which must be removed before priming, with a commercially available degreaser and a metal etching material for added "tooth." Apply both products per the manufacturer's instructions, then rinse thoroughly with water and allow to dry before priming. Bare aluminum should also be cleaned with a 7% TSP solution, thoroughly rinsed with water, and allowed to dry before application of the primer. A mockup must be completed and approved prior to any large-scale application to confirm proper system adhesion.

IRON AND STEEL

Remove all oils, grease, dirt, mill scale, and all other foreign matter prior to painting. For rusted surfaces, commercial blast cleaning may be necessary.

PREVIOUSLY PAINTED/BAKED-ON METAL FINISHES INCLUDING WELL-WEATHERED KYNAR® 500 SURFACES

If in sound condition, make sure that the surface is free of all contaminants. Hard or glossy surfaces should be abraded prior to coating.

TESTING

After preparing the surface, apply a test area of the primer and allow to cure for 24 hours, then test a cross-hatch adhesion. If adhesion is poor, then additional abrasion may be necessary followed by retesting the adhesion of the primer.

MILDEW

Surface area affected by mildew should be thoroughly hand-scrubbed with a soft to medium bristle scrub brush and a solution of one cap Tri-Sodium Phosphate or a non-ammoniated detergent cleaner mixed with one part household bleach and three parts warm water, per gallon solution. Allow solution to stand on the affected surface areas for 10-20 minutes then rinse thoroughly with clean water and allow it to dry 24-48 hours.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.



PRODUCT APPLICATION

APPLICATION

Apply TEX-COTE® METAL-PRIME™ after the surface has been prepared according to the previous directions. If surfaces have been factory-primed, advise TEX-COTE LLC of type used to avoid incompatibility and potential loss of adhesion.

Apply at a coverage rate of 300-400 square feet per gallon. Allow a minimum of 24 hours to dry under ideal weather conditions prior to top-coating. Primer must be top coated within 14 days of application or re-priming will be necessary.

CLEAN-UP

- For Dry Material: Use Acetone or Methyl Ethyl Ketone (MEK)
- For Tools and Wet Material: Use soap and water immediately after application.

BEST PERFORMANCE

IMPORTANT STEPS

- Metal surfaces must be cleaned and prepared per above instructions.
- DO NOT apply over damp surfaces or when rain is imminent.
- If TEX-COTE® Metal-Prime™ Primer is not top-coated within 14 days of application, re-priming will be necessary.
- Substrate, material, and air temperature during application shall be a minimum of 50°F and rising, and not exceeding 100°F.
- Protect product from freezing.
- If the metal has been factory-primed, advise manufacturer of type used to avoid possible loss of adhesion or incompatibility.

PHYSICAL PROPERTIES

	PENCIL HARDNESS	T-BLEND	DIRECT IMPACT
On Aluminum	B	T-0	60 IN LB: PASS
On Steel	3B	T-0	60 IN LB: PASS

CHEMICAL TEST	Motor Oil	Vegetable Oil	Windex	Ethanol
On Aluminum	Pass	Pass	Pass	Pass
On Steel	Pass	Pass	Pass	Pass

COVERAGE RATE

	Dry Mills (Micron)	Wet Mills (Micron)	Sq Ft/gal (m ² /gal)
Minimum	1.6 (40.6)	4.0 (102)	400 (37.6)
Maximum	2.1 (53.3)	5.3 (135)	300 (27.9)

TECHNICAL DATA

PHYSICAL PROPERTY	TYPICAL RESULT
Appearance of Dry Film	White
Gloss	Flat
Flash Point °F	NONE
Volume Percent	39 +/- 2%
Weight Percent	52 +/- 2%
Viscosity, 77°F (28°C)	90-95 Kneb Units
VOC (grams/liters minus water)	<100 grams/liter
Weight/Gallon (pounds)	10.5 lbs. +/- 0.3

PHYSICAL PROPERTY	TYPICAL RESULT
Application Temperature	50 - 100°F (10 - 37.7°C)
Shelf Life	12 Months Unopened
Dry Time at 77°F & 50% RH	To Touch: One (1) Hour
	Recoat: Four (4) Hours
	Top-coating: 24 Hours Min.

High humidity and cool temperature will result in longer dry, recoat, and service times.



TECHNICAL DATA SHEET

Primers/Block Fillers/Patching Compounds
METAL-PRIME™ PRIMER

ORDER INFORMATION

PACKAGING SHELF-LIFE

Available in one (1) gallon and five (5) gallon containers.
12-Month Shelf Life under proper conditions:

- Containers stored upright and airtight in a cool, dry place.
- Maintain temperature between 45°F rising to 100°F (7°C-38°C).
- AVOID FREEZING.
- AVOID PLACING CONTAINERS IN DIRECT SUNLIGHT.
- Skins formed on surface of product shall be removed prior to mixing, moving, or using.

SAFETY

WARNING

- DO NOT BREATHE spray mist.
- Wear appropriate gloves and eye protection during application.
- Wash thoroughly after handling.

FIRST AID

- In case of eye contact, flush immediately with large quantities of water for at least 15 minutes.
- Seek medical attention if blurring or redness continues.
- In case of spill, absorb with inert material and place it into a suitable container for disposal.
- Dispose in accordance with the EPA and/or state and local guidelines.

VOC COMPLIANCE

All TEX-COTE® products comply with federal Volatile Organic Compound (VOC) rules and regulations.

Please contact your nearest TEX-COTE LLC office for assistance with the local and state VOC compliance in the area of intended use.

WARRANTY

Upon completion of the application of the coating in accordance with the manufacturer's recommendations, TEX-COTE LLC will extend its limited commercial warranty for product replacement as a result of a defect in the material. The manufacturer must be notified prior to the application of the coating, and the application must be in compliance with the manufacturer's recommendations for installation. TEX-COTE LLC shall have no obligation to contribute to or otherwise participate in labor or cost associated with effecting repairs. A specific copy of material warranty is available upon request.

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