



Tufcote™ LV HG High Gloss Polyurethane Topcoat (Formerly Maximus MX-5500 Series)



GENERAL

DESCRIPTION

Tufcote LV HG Polyurethane Topcoat is an industrial maintenance coating formulated at 0.8 lbs/gal (100 g/l) VOC to meet the requirements of SCAQMD Rule 1113 for the category of Industrial Maintenance Coatings. Tufcote LV HG Polyurethane Topcoat is a two-part (4:1), high-quality, low-VOC, polyurethane designed to provide a high-gloss, extremely durable solvent and chemical-resistant topcoat. This product sets up rapidly and can be brushed or rolled or easily applied by airmix or HVLP spray.

SUGGESTED USES

As an economy coating for use on properly prepared machinery, oil refineries, storage tanks, offshore platforms, piers, structural steel, and steel where the following attributes are desirable:

- Exceptionally strong adhesion
- Long-term protection
- Chemical resistance
- Exceptional resistance to chipping and abrasion
- Easy mixing
- Fast dry is needed
- OEM applications

COMPATIBILITY WITH OTHER COATINGS

- For best results, apply over Tufcote 5187 Primer.
- Can also be applied over old coatings in good condition after testing for adhesion.

COLOR

MX-5500 White
MX-5501 Black

The products referenced herein may not be sold in your market. Please consult your distributor for product availability.



MIXING

COMPONENTS

Tufcote LV HG MX-550X Polyurethane Topcoat	1 gallon container 80% Full (102 oz.)
Tufcote LV HG MX-5599 Polyurethane Activator	1 quart container 80% Full (26 oz.)

MIX RATIO

Component	Part by Vol.
Tufcote LV HG MX-550X Topcoat	4
Tufcote LV HG MX-5599 Activator	1

MIXING

Assure color is uniform and there are no solids on bottom of can.

Tufcote LV HG Polyurethane Topcoat is a two-part product consisting of Part A Base and Part B Activator. The proper mixing ratio is 4:1.

Part A Base must be mixed with Tufcote MX-5599 Polyurethane Activator – Part B before the product can be used.



MIX ONLY WHEN READY TO USE. Mix four parts Tufcote LV HG Polyurethane Topcoat with one part Tufcote MX-5599 Polyurethane Activator. Stir intermittently.

Reduction

If thinning is necessary, reduce with Tufcote 82 Super Gloss & Flow Zero VOC Reducer or Axalta Tufcote 8020 Zero VOC Exempt Solvent. Thin to desired viscosity after the Tufcote Polyurethane Activator has been added, up to 10%

POT LIFE

Pot life is approximately 2 hours @77°F (25°C). Pot Life can be extended by adding Tufcote 82 Super Gloss & Flow Zero VOC Reducer or Axalta Tufcote 8020 Zero VOC Exempt Solvent. Pot Life will be reduced as the ambient temperature rises about 77°F (25°C) and/or when volume of mixture exceeds 1 gallon.



APPLICATION

APPLICATION CONDITIONS

Application at air and surface temperatures lower than 125°F (52°C) and above 50°F (10°C) and more than 5°F (-15°C) above the dew point is suggested.

SURFACE PREPARATION

All surfaces to be painted must be clean, dry and in fit condition to be painted. Be sure to remove all wax, silicone, oil, powdery or scaling rust, loose or peeling paint and all other foreign matter. Smooth, slick surfaces should be sanded to promote adhesion. Prime bare and uncoated surfaces with Tufcote Epoxy Primer.

BARE FERROUS METALS: Clean off all dirt, grease, oil, wax or other foreign matter. All loose, powdery or scaling rust must also be removed. A completely de-rusted surface is recommended. Prime bare and uncoated surfaces with Tufcote Epoxy Primer.

Aluminum surfaces should be properly treated. Surface preparations may include sanding, brush off blasting (SSPC-SP7), alodine treatment, treatment with an acid, or other preparation necessary to ensure adhesion. All aluminums are not alike, it is strongly suggested that adhesion testing be done to assure system robustness.

Galvanized steel surface preparation may include detergent washing, pre-treatment and abrasion for new surfaces; for weathered surfaces, detergent washing and sanding. For new galvanized surfaces, acid treatments, degreasing and abrasion might be required before application of appropriate primer.

PAINTED SURFACES: May lift old paint. We recommend a test patch. If lifting occurs, remove old paint and follow directions for bare ferrous metals. Be sure all loose and peeling paint is completely removed, and the surface is clean. Remove excess chalkiness with a wire brush or by sanding. Feather edge and spot prime with Tufcote Epoxy Primer.

BARE WOOD: Clean wood thoroughly. Prime and seal with one coat of Tufcote Epoxy Primer or Tufcote Enamel (tinted close to finish color, if desired).

APPLICATION

Be sure all spray painting equipment is clean and ready to use prior to mixing and application of coating. Apply by spray, (or in small areas by brush or roller) in an even, wet coat to a minimum of 4 mils wet film thickness. Give particular attention to all irregularities to ensure that they are completely covered. On a porous type primer or substrate, the use of a thin or "mist" coat may be needed. If a second coat is needed, allow 15 minutes flash time.



Re-Coat

Recoat when material is relatively dry and firm [1-2 hours at 77°F (25°C) and 50% RH], but before coating reaches complete cure and hardness. Check for desired film thickness and continuity.

CLEAN UP THINNERS

Do not allow catalyzed material to stand in equipment after use. Clean equipment immediately after use in an enclosed spray equipment cleaner with Axalta Tufcote 8020 Zero VOC Exempt Solvent.



DRY TIMES

Cure Time at Recommended Thickness @ 50% RH

	77°F (25°C)
To Touch	20 minutes
To Handle	1 hour
Recoat Time	1-2 hours
Full Cure	5 days

Allow final dry time of at least 5 days at 77°F. All solvent vapors should be removed before placing in service. Curing time is significantly shorter at higher temperatures or lower film thicknesses, and longer at lower temperatures or higher film thicknesses.



PHYSICAL PROPERTIES

Viscosity	62 - 64 Kres Units @ 77°F
Volume Solids	33% - 40%
Weight Solids	30% - 46%
Theoretical Coverage Per Gallon	540 – 642 ft ² per gallon @ 1 mil DFT
Solvents Used	PCBTF/Ester/Xylene/Alcohol
Flash Point	54°F
Gloss	90+ Gloss
Shelf Life	12 months
Recommended DFT	2 mils DFT (4-5 mils WFT)

Application by brush and roller may require additional coats to achieve recommended films thickness.

STORAGE CONDITIONS

Store in a dry, well-ventilated area. Storage conditions should be between 35°F (2°C) and 90°F (32° C).



VOC REGULATIONS

VOC (Theoretical, varies with color).

Mixed with Tufcote Polyurethane Activator - 0.8 lbs/gal (100 grams per liter) or less

These directions refer to the use of products which may be restricted or require special mixing instructions in VOC regulated areas. Follow mixing usage and recommendations in the VOC Compliant Products Chart for your area.

SAFETY AND HANDLING

For industrial use only by professional, trained painters. Not for sale to or use by the general public. Before using, read and follow all label and MSDS precautions. If mixed with other components, mixture will have hazards of all components.

Ready to use paint materials containing isocyanates can cause irritation of the respiratory organs and hypersensitive reactions. Asthma sufferers, those with allergies and anyone with a history of respiratory complaints must not be asked to work with products containing isocyanates.

Do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.

All technical advice, recommendations and services are rendered by the Seller gratis. They are based on technical data which the Seller believes to be reliable, and are intended for professional use by persons having skill and know-how at their own discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use by Buyer in whole or in part. Such recommendations, technical advice or services are not to be taken as a license to operate under or intended to suggest infringement of any existing patent.

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