



Tufcote™ Hydro 2.1 FT Flat Black Waterborne Acrylic Topcoat

(Formerly Hy-Lux 1200 Series - 1294)



GENERAL

DESCRIPTION

Tufcote Hydro 2.1 FT is a waterborne low VOC, quick-dry flat black enamel based on high quality acrylic resin with excellent adhesion properties to a wide variety of metal substrates and wood products. This product dries to a smooth and hard surface. It may be applied by brush, roller or spray.

SUGGESTED USES

As an economy coating on properly prepared, metal and wood where the following attributes are desirable:

- Fast drying
- Good flexibility
- Outstanding adhesion
- Easy application
- Non-flammable
- Water-reducible
- Meets clean air standards

Note: Check local VOC requirements for your intended application

COMPATIBILITY WITH OTHER COATINGS

- For best results, apply over Tufcote 1200, 4400 & 7900 series primers
- Can also be applied over old coatings in good condition, after checking for adhesion.

COLOR

1294 Flat Black

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



MIXING

COMPONENTS

Tufcote Hydro 2.1 FT 1294 Topcoat 1 gallon container 100% full (128 oz.)

MIXING

Mix thoroughly before use and/or after thinning. Assure color is uniform and there are no solids on bottom of can.

Reduction

Ready to apply as packaged, but if thinning is required. Clean water may be used. Do not over thin; sagging may result.

POT LIFE

n/a



APPLICATION

SURFACE PREPARATION

Surface must be free of oil, grease, dirt, wax, silicone, 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 one of the following Tufcote primers: Tufcote Hydro 2.1 PR (1200 waterborne series), Tufcote LV PR (4400 series) or Tufcote Hydro LV PR (7900 waterborne series).

METAL SURFACES:

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: 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 Primer.

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

APPLICATION

Apply 2 coats, 1 to 2 hours apart, if possible, using conventional application methods and equipment.

CLEAN UP THINNERS

Clean pad applicators, brushes and rollers immediately after use with soap and cold water. Clean spray equipment immediately after use with water followed with 8020 Zero VOC Exempt Solvent.



DRY TIMES

Cure Time at Recommended Thickness @ 50% RH

| | 77°F (25°C) |
|-------------|--------------------|
| To Touch | 30 minutes |
| To Handle | 1-2 hours |
| Recoat Time | 1-2 hours |
| Full Cure | 7 days |



PHYSICAL PROPERTIES

| | |
|---------------------------------|--|
| Viscosity | 86 - 88 Kreb units @ 77°F |
| Volume Solids | 34% +/- 2% |
| Weight Solids | 42% +/- 2% |
| Theoretical Coverage Per Gallon | 540 ft ² per gallon @ 1 mil DFT |
| Solvents Used | Glycol Ethers |
| Flash Point | >200°F/TCC |



| | |
|-----------------|---------------------------|
| Gloss | Flat |
| Shelf Life | 12 months |
| Recommended DFT | 2 mils DFT (5-6 mils WFT) |

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

STORAGE CONDITIONS

Store in a dry, well-ventilated area. Storage conditions should be between 35°F (2°C) and 90° F (32° C). Do not allow product to freeze.

ASTM INFORMATION

PHYSICAL FILM PROPERTIES AFTER 7 DAYS OF AIR DRY

| | |
|-----------------------------|--------------------------------|
| Adhesion: | Cross-hatch – 100% adhesion |
| Flexibility and Elongation: | 1/2" Mandrel, no cracking |
| Hardness: | B |
| Accelerated Weathering: | 500 hours, 90% gloss retention |
| Print and Block Resistance: | Good |
| Direct Impact: | 80 in-lbs, no cracking |
| Reverse Impact: | 80 in-lbs, no cracking |

VOC REGULATIONS

VOC (Theoretical, varies with color).

Less than 2.1 lbs/gal (250 grams per liter).

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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