

## DIRECT-TO-METAL

### Description:

DIRECT-TO-METAL is a waterborne, acrylic enamel that can be applied to properly prepared surfaces without using a primer. This product is designed to provide a dry film thickness of up to 5 mils per applied coat without sagging. DIRECT-TO-METAL adheres to a variety of substrates including steel, masonry and previously coated surfaces.

### Partial List of Uses:

- Intermodal containers • Trash bins • Steel fabrication for material handling equipment
- Conveyors • Heavy duty equipment • Hand trucks

### Benefits:

- Fast drying • Meets clean air standards • Water-reducible
- Good corrosion resistance • Non-flammable
- Outstanding adhesion • Can be applied directly to metal



### TECHNICAL DATA

<b>Product Number:</b>	9600 Gloss Series, 9700 Semi-Gloss Series
<b>Colors:</b>	85 - 95 Krebs Units @ 77°F
<b>Viscosity:</b>	White, Black and Tint Bases
<b>Solids by Weight:</b>	33% - 48%
<b>Solids by Volume:</b>	32% - 38%
<b>V.O.C. (Volatile Organic Compounds): *</b>	Less than 250 grams per liter (2.08 lbs/gal)
<b>Solvent(s) Used:</b>	Glycol Ethers
<b>Finish:</b>	Semi Gloss or High Gloss
<b>Flash Point:</b>	>200°F/TCC
<b>Dry-To-Touch @ 77°F:</b>	30 minutes
<b>Dry-To-Handle @ 77°F:</b>	1 - 2 hours
<b>Recoat time @ 77°F:</b>	1 - 2 hours
<b>Coverage (Theoretical):</b>	509 - 592 square feet per gallon @ 1 mil DFT

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### Directions for use:

#### **SURFACE PREPARATION:**

**GENERAL:** 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 give a mechanical tooth for adhesion purposes.

**BARE METAL:** 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.

**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.

**NON-FERROUS METALS:** Clean surface thoroughly then apply a prep coat of Hy-Lux<sup>®</sup> 690 Low VOC Etching Filler 420 VOC as a first coat over the non-ferrous metal to insure adhesion of the primer. Low VOC Etching Filler 420 VOC between 2 to 8 hours. After 8 hours, the Hy-Lux<sup>®</sup> 690 Low VOC Etching Filler 420 VOC should be lightly sanded before applying the first coat of DTM.

**MIXING:** Mix thoroughly before use and/or after thinning.

**THINNING:** Thinning is not usually required. Ready to spray as packaged, but if thinning is necessary, thin with water as needed.

**APPLICATION:** Stir the paint well before using; apply at package consistency. Spray 2 wet coats to achieve proper film thickness. Brushing is not recommended except for small areas or for touch-up.

**CLEAN-UP:** Clean pad applicators, brushes and rollers immediately after use with soap and cold water. Clean spray equipment immediately after use with water followed with Ellis 80/20 Exempt Solvent Zero VOC  
• Prep • Thinning • Clean-Up.

**SHELF LIFE:** One year from date of manufacture in an unopened container.

#### **FILM PROPERTIES:**

**ADHESION:** ASTM D-3359 Cross-hatch 100% adhesion

**FLEXIBILITY:** ASTM D-1737 1/2" Mandrel no cracking

**HARDNESS:** ASTM D-3363 HB

**ACCELERATED WEATHERING:** ASTM G-53 500 Hours 90% gloss retention

**DIRECT IMPACT:** ASTM D-279 80 in-lbs no cracking

**REVERSE IMPACT:** ASTM D-2794 80 in-lbs no cracking

**SALT SPRAY:** Semi-Gloss ASTM-B117-85 1,000 Hours passed, no blisters, few rust spots, Gloss ASTM-B117-85 500 Hours passed, no blisters, few rust spots

\*V.O.C. Rule and Regulation requirements are mandated by local air management districts and change from district to district. Refer to your local V.O.C. Rules and Regulations from your air resources board or on the web at [www.arb.ca.gov/capcoa/roster.htm](http://www.arb.ca.gov/capcoa/roster.htm)

Refer to product label and Material Safety Data Sheet (MSDS) for cautions and warnings pertaining to this product.

#### **Limited Warranty:**

*Ellis Paint Company certifies that all Ellis coatings delivered to the customer in new, sealed containers will meet all pertinent quality standards presented in Ellis published literature. Since matters of surface preparation, application procedures and other local factors which affect performance are beyond its control, Ellis assumes no liability for coating failure other than to supply replacement material for Ellis coatings shown to be defective. If you have questions, contact your dealer, visit [www.ellispaint.com](http://www.ellispaint.com), or call Ellis Paint Company. There is no other warranty, either expressed or implied.*

