

# PRO TECH™

PRODUCTION PAINT COATINGS

## PRODUCT DATA

### MIRACRYL™ LH Acrylic Low Sheen DTM Enamel 4100-series

modified acrylic copolymer

#### PRODUCT DESCRIPTION

A high solids, low VOC, low HAPs acrylic copolymer DTM enamel. When used with Miracryl HS Activator (9000-921), produces a high performance, low HAPs aliphatic polyurethane coating.

#### TYPICAL USES

For industrial and commercial use including machinery, trailers, industrial compactors and containers, implements and steel furniture.

#### PRODUCT ADVANTAGES

MIRACRYL LH Acrylic Enamel with Miracryl HS Activator offers excellent long term protection in exposures including mild industrial environments. Excellent color and gloss retention and overall durability. Good application properties with good hardness and adhesion. Low VOC and low HAPs content.

#### COLORS

Special colors available subject to minimum order.

#### GLOSS

Low sheen (Gloss variations available subject to minimum order)

#### PHYSICAL CONSTANTS (with Activator)

<b>Nonvolatile -</b>	By weight - 65.2 ± 2.0% *
	By volume - 48.3 ± 2.0% *
<b>VOC (Calculated)</b> (less exempt solvents)	3.1 lbs./gal. 370 grams/liter
<b>VOC (emitted)</b>	2.6 lbs./gal. 315 grams/liter
<b>HAPs content</b>	0.39 lbs. per solid gallon of coating
<b>Flash Point -</b>	(A) <20°F (B) 80°F(setaflash)
<b>Mixing Ratio -</b>	8:1 by volume
<b>Weight per gallon -</b>	(A) 10.3 ± 0.2 lbs. * (B) 8.9 ± 0.2 lbs.

\* may vary with color

#### APPLICATION

**Recommended Film Thickness per coat** - 2.0 mils dry, 4.1 mils wet

**Theoretical Coverage @ 2.0 mils dry** - 387 sq. ft./gal.

**Method** - Conventional or Airless spray

**Induction time** - None

**Pot Life @ 75°F** - 4 hours minimum

**Thinner** - Urethane Thinner 916, 917 or 918 (Refer to thinning on back)

<b>Cure time @ 75°F -</b>	To touch	-	1 hour
	To handle	-	2 hours
	To recoat	-	12 hours

**Force Dry** Flash off - 5 minutes, Force dry - 10 minutes @ 200 - 250°F

#### SHIPPING & STORAGE

<b>Packaging -</b>	<b>Base</b>	1 gallon	5 gallons
	Shipping Weight	10 lbs.	47 lbs.
	<b>Activator</b>	1 pint	1 gallon
	Shipping Weight	1.5 lbs.	10 lbs.

**Shelf Life** - 12 months minimum from date of manufacture when maintained in protected storage @ 40-100°F (subject to reinspection thereafter).

## APPLICATION INSTRUCTIONS

Consult your Mobile Paint Pro Tech Representative for the protective coating system best suited for your requirements.

**Limitations** - Apply in good weather when air and surface temperature are above 50°F and surface temperature is at least 5°F above the dew point. Humidity must be below 90%. Conditions should be within these limits for the full curing time of the coating. Conditions of high humidity and/or low temperatures, especially with moisture condensing on the uncured paint film, will adversely affect the curing and gloss of the coating. For optimum application properties, material should be between 70°F to 100°F prior to mixing and application. Maintain unmixed material in closed containers in protected storage at 40-100°F.

**Surface Preparation** - Good surface preparation is essential to a satisfactory coating system. Surfaces to be coated should be clean and dry. Remove all oil, grease, mildew or other contamination by solvent or detergent cleaning or other effective methods.

**New or Unfinished Surfaces : Ferrous Metal:** Self prime or prime with Armor Tech Epoxy Primer 1600. **Galvanized Metal:** Remove oil and prime with Vinyl Wash Primer. **Aluminum:** Follow preparation guidelines for recommended primer. Prime with Armor Tech Epoxy Primer 1600.

**Previously Finished Surfaces:** Repair all damaged areas. Remove gloss from previous paint by sanding or "Brush Blasting" (SSPC-SP7). Remove rust, corrosion products, heavy chalk and loose or peeling paint by "Hand or Power Tool Cleaning" (SSPC-SP2 or -SP3). Spot prime any bare areas as in new work above. If doubt exists concerning compatibility of this coating with the previous system, apply coating to a representative area (25 square feet minimum) and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any other sign of incompatibility. If there are no signs, coating work can proceed.

**Tinting:** Do not tint.

**Mixing** - Miracryl LH Base can be used alone, without the addition of the Miracryl HS Activator where a high performance air drying enamel is desired. See your Mobile Paint Pro Tech Representative for specific recommendations. For maximum performance, Miracryl LH Enamel Base should be mixed with Miracryl HS SG Activator at a 8:1 ratio by volume.

Base - 1 gal. (128 oz.) + Activator - 1 pint (16 oz.)

Base - 5 gal. (640 oz.) + Activator - 0.625 gal. (80 oz.)

Care should be taken when measuring to insure proper mixing ratio is maintained. When preparing for use, (1) Agitate Base with power agitator (2) Combine the proper amounts of Base and Activator and mix thoroughly with power agitator. Usable pot life depends on the temperature of the material. Refer to Pot Life section on front page.

**Thinning** -Material is supplied at airless spray viscosity and should not require thinning. Clean Air Regulations may not allow thinning of this product for certain uses. Do not thin beyond applicable regulations. If thinning is allowed, use Urethane Thinner 916, 917 or 918 . The use of non-specified thinners may render this product useless.

**Application** - This product is designed for application by airless spray. Conventional spray and/or electrostatic application is also acceptable. Brush and roller application is considered for touch up of small areas. Apply 4.1 mils wet film thickness which will yield 2.0 mils dry film thickness.

### Performance Information -

Adhesion (ASTM D3359)	- 5 (steel substrate)
Hardness (ASTM D3363)	- HB minimum
Impact, Reverse (ASTM D2794)	- 80 in. lb. minimum
Flexibility (ASTM D522)	- 1/8 in., no effect
Accelerated Weathering (QUV) (ASTM D4587)	- 1000 hours

**Equipment** - Airless Spray - Minimum of 30:1 ratio pump, .011"-.013" tip, 3/8" ID material hose. Conventional spray -DeVilbiss MBC gun with E tip and needle and 30 air cap or equivalent at 35-45 psi atomizing pressure and 7-10 psi pot pressure, 3/8" ID product hose, double regulated pressure tank with oil and moisture separator. See your Mobile Paint Pro Tech Representative for specific recommendations.

**NOTE:** During lunch, breaks or any period of work stoppage, material should be removed from hoses and equipment. Release pressure from equipment and flush hoses and equipment with Urethane Thinner 916, 917 or 918. Do not repressurize equipment until ready to resume work.

**Cleanup** - Clean all equipment immediately after use with Urethane Thinner 916, 917 or 918 or MIBK. Completely flush all spray equipment with either of these solvents. Occasional flushing of spray equipment during the course of the working day helps prevent buildup and possible clogging.

**Safety** - Safe storage, handling and use dictate that adequate health and safety precautions be observed with this product and any recommended thinners. User is specifically directed to consult the current Material Safety Data Sheet for this product as well as precautions contained on product labeling.

**Notice** - The technical data contained herein are true and accurate to the best of our knowledge. All products are offered and sold subject to Mobile Paint Manufacturing Company's Standard Conditions of Sale. Published technical data and instructions are subject to change without prior notice.

MiracrylLH DTM(2/11)

### LIMITED WARRANTY

The successful performance of this product is highly dependent on many factors beyond our control. Results are highly dependent upon the skill of the operator. This product is manufactured to meet the highest level of consistency and quality for the intended use. Mobile Paint warrants that its products meet the specifications which it sets for them. Should this product be proven to be off-specification within one year from date of shipment, Mobile Paint will, at its sole discretion, either replace the product or issue credit for the original purchase price of the product. The replacement or refund shall be the buyer's sole remedy and Mobile Paint and its affiliates **MAKE NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY, DESIGN COMPATIBILITY AND FITNESS FOR A PARTICULAR PURPOSE, LABOR OR COST OF LABOR AND OTHER INCIDENTAL AND/OR CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.** The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.