



DYC507X

DYOTECH DTM SEMI-GLOSS ACRYLIC ENAMEL 5070, 5071, 5072, 5074 Data Sheet

CHARACTERISTICS

DYOTECH 5070 DTM is a premium quality, low V.O.C., waterborne direct-to-metal semi-gloss enamel. Formulated to provide a fast drying finish for use on high traffic interior and exterior areas of commercial, institutional and light industrial structures. May be applied directly to steel, galvanized metal, or aluminum and bonds to existing alkyd enamel finishes.

RECOMMENDED USES

- Ideal for Direct-to-Metal applications
- Excellent for painting over old oil based enamels
- Interior and Exterior Doors and Trim
- Aluminum Substrates - Railings, Windows & Sliders
- Light Industrial Environments - Hospitals and Schools
- Commercial Maintenance Applications

FEATURES/BENEFITS

- Enamel-Like Hardness and Durability
- Resists Peeling and Chipping
- Flash Rust Inhibitive
- Excellent Color Retention
- Excellent Adhesion to all substrates
- Low V.O.C. - Low Odor

RECOMMENDED PRIMERS

Ferrous Metals..... Self Priming, or MP90
 Galvanized Metals..... Self Priming, or MP90
 Aluminium Metals Self Priming or 1375
 Wood..... 6005
 Drywall/Gypsum..... Self Priming, or MP90

SPECIAL NOTES

For extremely hard industrial enamel surfaces, abrade the surface and solvent wipe with denatured alcohol.

FOR ADDITIONAL INFORMATION

See MSDS or call toll-free 1-800-282-7901.

TECHNICAL DATA

Vehicle Type..... Acrylic
 Finish/Sheen..... Semi-Gloss
 Solids by Weight..... 48%
 Solids by Volume..... 34%
 Viscosity..... 85 - 90 KU
 VOC (less exempt solvents) 70 g/L.
 Weight per Gallon..... 10.2 lbs/gal.

COVERAGE

300 S.F./Gal. @ 3.52 mils Wet; 1.2 mils DFT
(Actual coverage may vary depending on type of substrate, and application method.)

AVAILABLE BASES

- 5070 - White Pastel
- 5071 - Tint Base
- 5072 - Deep Base
- 5074 - Neutral Base

KEY ATTRIBUTES

Application Temperatures: 59 - 95°F (15 - 35°C)
 Application Tools: Brush, Roller, or Spray
 Dry Times: Touch - 15 Minutes; Recoat - 1 Hours
 (Dry Time Based on 77°F (25°C), 50% RH)
 Thinner: Do not thin.
 Clean Up: Soap and water.

PHYSICAL PROPERTIES

Perm Rating..... < 1 Perms
 Alkali Resistance..... 12-13 Surface pH
 Mildew Resistance Excellent
 Flash Point..... 245°F (118°C)

CERTIFICATIONS:

GS-11: VOC Compliant in all Regulated Areas



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PRECAUTION: Do not freeze. Wear protective clothing, gloves and eyewear during application and cleanup of this product. Do not transport on passenger seats or inside passenger compartment of any vehicle. Store product in cargo area of vehicle, and secure with protective cloths to prevent accidental spill damage. Do not store at temperature above 100°F (37.77°C). Do not use in drinking water or food systems.

PREVIOUSLY PAINTED SURFACES: Must be cleaned and made to be free of dirt, mildew, algae, rust stains, sulfide stains, oil, grease, tar, and chalk (oxidation). Pre-soak all areas affected by mildew and algae with a 10% chlorine solution or other industry standard mildew cleanser and power wash at a minimum 2500 psi. Un-exposed areas such as eaves, ceilings, and overhangs should be pre-soaked with a detergent solution and rinsed or power washed to rinse thoroughly. Allow 12 - 24 hours dry time before painting. Do not paint if the surface is damp. Check moisture as needed with a moisture meter to insure that the surface is dry enough to accept primers and/or paint. Rust stains can be removed by the use of hydrofluoric or oxalic acid solutions. Follow dilution instructions on manufacturer labels. Caution: Use rubber gloves, work goggles and protective clothing during all cleaning procedures.

MASONRY, CONCRETE, CEMENT AND CMU BLOCK: All new surfaces must be cured according to the supplier's recommendations, usually about 30 days. Remove all form release and curing agents. Masonry surfaces must be dry before priming. Moisture content must be 15% or lower and the pH between 7 and 9. Rough surfaces should be filled by pointing or applying Dyco #990 Block Filler to provide a smooth surface. If painting cannot wait for a 30 day cure time, a manufacturer approved alkali blocking "Hot" masonry primer may be applied at a pH level between 7 and 12.

FERROUS METAL: Steel - Best results are obtained when coated a surface that has been abrasive blasted to (SSPC-SP6) standards. Rust, oxidation and other surface contaminants must be removed if applying DYOTECH DTM directly to the steel surface. If rust is present, spot prime to encapsulate rust with Dyco MP50 alkyd metal primer before painting. Solvent wipe all metal surfaces thoroughly to remove surface residue with denatured alcohol before priming or painting. When applying direct-to-metal without a primer, a minimum of two coats is recommended for best corrosion resistance.

NON-FERROUS METAL: Galvanized Steel surfaces must be clean, dry and free of contamination or white zinc salts. The use of a chloride solvent may be required. If rust is present, spot prime with DYCO MP50 alkyd metal primer before painting. Solvent wipe all metal surfaces thoroughly to remove surface residue with denatured alcohol before priming

NON-FERROUS METAL: Aluminum must be clean and dry. Solvent wipe with denatured alcohol to remove residual oils or mill scale before painting.

NEW WOOD: All new wood should be sanded and wiped clean. Countersink all nails and putty holes flush with surface. Wood fillers, knots or resinous areas should be spot primed, then full primed with an appropriate stain blocking wood primer.

MIXING: Read and follow label instructions before use.

TOOLS: Apply with a brush, roller or airless sprayer. Brush: Use appropriate premium latex paint brushes for best results. Roller: Use a 1/4"- 3/8" nap cover for smooth surfaces, a 1/2" nap cover for semi-rough surfaces and a 3/4"-1" nap cover for rough surfaces. Airless sprayer: It is recommended to use a "minimum" 1 gallon per minute pump; with .015 -.019 tips, @ 1800-2400 psi; and a 1/4" high pressure material hose. Adjust pressure as needed for desired results.

COVERAGE: Actual coverage may vary depending on substrate and application method. For best "hide", use appropriate grey basecoat or tint primers towards finish coat color. Certain deep or accent colors may require multiple coats to obtain even coverage and hide.

THINNING: Do not thin.

LIMITATIONS: Do not apply in direct sunlight or when air or surface temperature is below 50 degrees Fahrenheit or above 114 degrees Fahrenheit. Do not apply if temperature is less than 5 degrees above dew point. Do not apply if surface is damp or if precipitation is expected within 4 hours.

CAUTION!

HARMFUL IF SWALLOWED. MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN.

To avoid breathing vapor, spray mist, or sanding dust, open windows and doors or use other means to ensure fresh air during sanding, application, and drying. If you experience eye watering, headaches, or dizziness, increase fresh air or wear respiratory protection (NIOSH/MSHA TC 23C or equivalent) or leave area.

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 a 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.

CALIF. PROP. 65 • CHEMICAL WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Use proper protection and adequate ventilation, when using product.

FIRST AID: If you experience difficulty in breathing, leave area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately. Material Safety Data Sheet available upon request.



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