



DYC514X

DYTON DYOFLEX EXTERIOR HIGH BUILD ACRYLIC COATING 5142, 5143 and 5144 Data Sheet

CHARACTERISTICS

DYOFLEX High Build Acrylic Topcoat is an ambient cured masonry coating that provides both excellent adhesive and priming properties to a variety of cementitious substrates. This coating provides high chemical and efflorescence resistance, toughness, water repellency and long term durability. Bridges hairline cracks. This product will protect against wind driven rain when used on tilt-up, precast, or poured in place concrete, CMU and stucco. May be applied directly to new cementitious surfaces with a pH of 13 or less.

RECOMMENDED USES

- Stucco/Masonry Walls
- Precast, Tilt-Walls, & Poured in Place Concrete
- Concrete Block (CMU)
- Fiber Cement Siding
- Brick & Split Faced Block
- Properly Primed Metals
- Properly Primed Wood
- Previously Painted Surfaces

FEATURES/BENEFITS

- Elongation to Bridge Cracks and Minor Defects in Surface
- Passes ASTM D6904 test for wind driven rain.
- Breathable Surface for Maximum Durability
- Resists New Mildew Formation on the Surface
- Uv Resistant - Excellent Color Retention Resistant to Peeling, Cracking and Blistering Self Priming on a Clean/Chalk Free Surface
- Alkali resistant to pH 13.

RECOMMENDED PRIMERS

New Masonry Surfaces Itself or 1370, 1375, 6005
 Concrete Block (CMU).....990
 Chalky Surfaces1315, 1340, 1370,
 1375, 6005
 Bare Stucco pH 13 or lower1340
 Fiber Cement Siding1370, 1375, 6005
 Wood – New or Bare1410, 6005
 Ferrous Metals.....MP-50, MP-75, MP-90
 Non-Ferrous MetalsMP-50, 1370, 1375, 6005

FOR ADDITIONAL INFORMATION

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

TECHNICAL DATA

Vehicle Type 100% Acrylic
 Finish/Sheen Flat
 Solids by Weight..... 52%
 Solids by Volume..... 43%
 Viscosity..... 115 - 120 KU
 VOC (less exempt solvents) 25g/L
 Weight per Gallon 11.12 lbs/gal.

COVERAGE

105 S.F/Gal @ 15 mils Wet, 6.5 mils DFT
(Actual coverage may vary depending on type of substrate, and application method.)

AVAILABLE BASES

- 5142 Tint Base
- 5143 Deep Base
- 5144 Neutral Base

KEY ATTRIBUTES

Application Temperatures: 50 - 110°F (10 - 43.33°C)
 Application Tools: Brush, Roller, or Spray
 Dry Times: Touch - 1 Hour; Recoat - 8 Hours
 (Dry Time Based on 77°F (25°C), 50% RH)
 Thinner: Do Not Thin
 Clean Up: Warm Soapy Water

PHYSICAL PROPERTIES

Perm Rating 4 Perm @ 6.4 mils DFT
 Elongation 190%
 Alkali Resistance..... Apply to pH 5-13; ASTM D1308
 Mildew Resistance ..ASTM D3273/3274
 Tensile Strength 500 psi
 Wind Driven Rain..... Passes ASTM D6904-03
 Two Coats @ 6.4-8.3 mils DFT/ct.
 Flash Point..... 247°F (118.33°C)

CERTIFICATIONS:

GS-11: VOC Compliant in all Regulated Areas



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DYTON DYOFLEX EXTERIOR HIGH BUILD ACRYLIC COATING 5142, 5143 and 5144 Precautions & Application Guide

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.

SURFACE PREPARATION (EXTERIOR): 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). Glossy surfaces should be de-glossed by manual, mechanical or chemical methods and wiped clean. 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.

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. DYOFLEX High Build Acrylic Coating is self-priming and alkali resistant on masonry substrates with a pH below 13. If pH is higher than 13, rinse the wall and let dry for 24 hours, then recheck pH level.

NEW FERROUS AND NON-FERROUS METALS: Rust, oxidation and other surface contaminants must be removed from ferrous metals, aluminum, copper, brass and galvanized steel. Solvent wipe all metal surfaces thoroughly to remove surface preparation residue with a solvent that is compatible with the adhesion of the primer to be used on the metal being painted. Apply appropriate primer 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: a roller nap between 1/2"-1-1/2" depending on the wall surface texture. Airless sprayer: It is recommended to use a "minimum" 4 gallon per minute pump; with .021 tip or

larger,, @ minimum 2300 psi; and a 3/8" high pressure material hose. Adjust pressure as needed for desired results.

COVERAGE: For proper waterproofing performance and to resist alkalinity, apply 2 coats of DYOFLEX High Build Acrylic Coating at a wet millage rate of 14.0 – 18.0 mills per coat. To minimize pinholes wait 24 hours for the first coat to dry before applying second coat. A spray and back roll application is recommended.

Thinning: The product is ready to use as is, but if thinning is deemed necessary, thin with clean water up to ½ pint per gallon.

LIMITATIONS: Do not apply in direct sunlight or when air or surface temperature is below 50°F (10°C) or above 114°F (45.55°C). Do not apply if temperature is less than 5°F (2.7°C) above dew point. Do not apply if surface is damp or if precipitation is expected within 8 hours. Not recommended for use on surfaces demonstrating hydrostatic or high vapor pressure or for immersion service.

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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