

Hi-Performance 2-Part Aliphatic Urethane Gloss Enamel Interior / Exterior

Gloss Finish • **5140**

Product Description

Sundeavor Hi-Performance Aliphatic Urethane Enamel is a high gloss, high performance, industrial. two (2) component aliphatic urethane coating, specially formulated to provide outstanding durability and unsurpassed chemical resistance in a variety of interior or exterior commercial and industrial environments. Its special formulation provides excellent alkali, acid, solvent and salt spray resistance. It provides excellent hardness, durability, resistance to abrasion and impact abuse. It is an excellent high gloss finish that is fade resistant and has performance qualities that far exceed that of conventional coatings such as, alkyd and industrial air-dry enamels.

Recommended Substrates

- Structural steel & ferrous metals
Storage tanks, water towers, piping, refineries, farm equipment and machinery
- Properly prepared concrete walls & floors
- Aluminum & galvanized metals

Product Features

- Aliphatic urethane formula
- Impact & abrasion resistant
- Rust inhibitive
- Excellent color retention
- Solvent, chemical & salt spray resistant
- Direct to properly prepared concrete

Product Limitations

This product is for use on properly prepared horizontal and above grade vertical substrates. Not for use in areas subject to intense heat.

Application: Brush, roller, airless or conventional spray

Flash Point: 93°F
Clean Up: Xylene

Available bases | 5140 WB | AB

Product Data

Product Type: **Aliphatic Urethane**

5140

Gloss @60°: 85+

Wt Solids ±2%: 58%

Vol Solids ±2%: 48%

Wet Film Mils: 3.6 - 4.6

Dry Film Mils: 1.7 - 2.2

Coverage / Gal: 350 - 450

VOC gms p/L*: <288

*less exempt solvents and before the addition of colorant

Viscosity KU ±5: 80

Dry time @ 50% RH**:

30 Min. to touch

2-4 HRS to recoat

5-7 Days full cure

**dry times listed may vary according to the relative humidity, temperature, film build, color and air movement of the application environment

Pot Life: 6 -8 HRS @ 77°F & 50% Relative Humidity

Recoat Window: 24 HRS***

*** after 24 hours the product must be scuff sanded with 220 grit sandpaper and solvent cleaned with xylene before re-coating.

Shelf Life: One (1) Year unopened

Chemical Resistance Chart

Y = Resistant N = Not Recommended S = Spill / Splash

Acetone	Y	Hydraulic Fluid (Tellus 46)	Y	Skydrol 5	Y
Animal Urine	Y	Hydrochloric Acid 10%	Y	Sodium Hydroxide 50% (Caustic Soda)	Y
Antifreeze	Y	Hydrochloric Acid 37%	Y	Sulfuric Acid 10%	Y
Bleach	Y	Isopropyl Alcohol	Y	Sulfuric Acid 37% (Battery Acid)	Y
Brake Fluid	S*	Methyl Ethyl Ketone (MEK)	Y	Toluene	Y
Calcium Chloride	Y	Motor Oil	Y	Trisodium Phosphate (TSP)	Y
Cooking Oil (Peanut, Olive, Canola)	Y	Mustard	S*	Water	Y
De-Icing Salts	Y	Natural Grain Spirits 190 Proof	Y	Windshield Wiper Fluid	Y
Detergents	Y	Orange Juice	Y	Xylene	Y
Gasoline	Y	Phosphoric Acid 10%	Y	*Will stain unless promptly removed.	

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General Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mil scale, form release agents, curing compounds, loose and flaking paint, rust, efflorescence and any other surface contaminants. If top-coating approved epoxy basecoat, follow surface preparation guidelines and recoat window time frames per the product data sheet.

Mildew/Algae: Surface areas affected by mildew or algae should be washed with a commercial cleaner, carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water, and allow a minimum of 24 hours to dry thoroughly.

Direct to Substrate Surface Preparation

Concrete & Masonry: All new masonry surfaces must be allowed to dry/cure a minimum of 30 days before painting. Acid etch or abrade all slick, glazed concrete or concrete with laitance to a minimum of CSP of 1-2. CMU and concrete with a deeper profile will require an approved primer.

New Metals: Clean substrate and prepare surface in accordance with approved epoxy basecoat.

Previously Painted Surfaces: Remove any loose scale, chalked, cracked or peeling paint from previously painted surfaces with a minimum of SSPC-SP3, or as required by the specification. Previously painted surfaces that are in poor condition should be completely removed to reveal a more compatible surface for paint application. Sand smooth all rough paint edges to the adjacent surface area, and abrade all glossy surfaces to effectively dull the existing sheen levels. Repair/replace any damaged, deteriorated, and surface imperfections with the proper patching compounds or building materials. Prime all bare, new, chalked, and repaired surfaces with the properly specified primer.

Surface Preparation Standards					APPLICATION EQUIPMENT	
Surface Condition	Method	SSPC	NACE	Mil Profile		
Grease, Oil, Grime, Etc	Solvent Cleaning	SP1	N/A	N/A	• Brush Application: Apply using quality nylon, polyester or combination nylon/polyester, or a quality natural china bristle brush.	
Light Rust	Hand Tool Cleaning	SP2	N/A	<1	• Roller Application: Apply using a smooth: 3/16" - 3/8" mohair or shed resistant roller cover, depending on texture or surface porosity.	
Moderate to Heavy Rust	Power Tool Cleaning	SP3	N/A	<1	• Spray Application:	
Heavy Rust, Failed Coating	Power Tool to Bare Metal	SP11	N/A	1-2	Pump: Gas or Electric Airless Sprayer	Tip: 0.013 - 0.015 Reversible
Heavy Rust, Failed Coating	Commercial Blast	SP6	3	1-6	Pressure: Minimum 2000 PSI	Hose: 1/4 inch (6.3 mm) - 3/8 inch (10 mm)

Directions for Use

Mixing Instructions: Sundeavor Hi-Performance Aliphatic Urethane Enamel is formulated as a 3 to 1 ratio mix by volume, example - one (1) short filled gallon of part A mixed with one (1) quart of part B. Stir Part A component thoroughly with a paint paddle in a spiral up and down motion or with an electric mixer at slow speed. Add Part B component and mix thoroughly. There is No Induction Period! Mixed material has a 6-8 hour pot life after combining, and should be applied during this time period. Neither Component Will Work Unless Mixed With The Other! Do not re-use containers that have been converted or mix with previously catalyzed material.

Application: Consult application equipment chart above. Apply when surface, product and ambient temperatures are above 55° F and below 120° F; and relative humidity is <85%. Avoid exterior paint application when weather conditions are threatening, and late in the day when there is a threat of moisture condensing on wet paint. To assure color uniformity always intermix multiple containers of custom tinted and stock colors. Apply a small test sample to verify color. Always paint to a natural break in the surface, such as a corner or edge. When applying by brush, apply a smooth and generous coat on smaller surface areas, such as cutting-in larger surfaces and painting edges or corners. When applying by roller cover, apply an even and generous coat in a "W" or crisscross motion, avoiding any excessive respreading or reworking. During spray application, use a 50% overlap to avoid pinholes, holidays and voids. If necessary, apply again at a right angle. Maintain a wet edge during application by brushing, rolling or spraying into previously applied coating area.

Clean Up: Minor spills, painting tools and spray equipment should be immediately with xylene or MEK. More serious spills should be contained and removed with inert absorbent material. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. DO NOT THIN: Stir thoroughly and apply as it comes from the container. Thinning is not necessary.

SAFETY

CAUTION: FLAMMABLE! CONTAINS XYLENE, NAPHTHA & GLYCOL ETHER! KEEP OUT OF REACH OF CHILDREN! HARMFUL OR FATAL IF SWALLOWED! Keep away from heat, sparks and open flames. Insure proper cross-ventilation until coating has dried! Turn off main gas valve until after coating has dried, then have pilot lights re-lighted by a responsible person. Always use a suitable respirator. Avoid prolonged contact with skin and breathing of vapors and/or spray mists. When spraying this material, use an OSHA approved cartridge respirator. Use chemical safety glasses, goggles, or a face shield for proper eye protection. Wash thoroughly after handling and before eating or smoking. Close container after each use.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact 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 USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

DO NOT TAKE INTERNALLY! FIRST AID: In case of skin contact, wash thoroughly with appropriate cleaning solvent followed by plenty of warm soapy water. For eye contact, flush with plenty of water for 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION! If affected by inhalation, move immediately to fresh air. If swallowed, DO NOT INDUCE VOMITING, SEEK IMMEDIATE MEDICAL ATTENTION!

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents herein may be harmful or fatal.

Storage and Disposal

Product should be kept from freezing temperatures or temperatures above 95°F. Refer to your local city or county government for instructions on disposal options.

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