



Division of CHEMLINE INCORPORATED

TECHNICAL DATA

**PDS No. 0850
EPO-LUX 520**

BRUSH/ROLL URETHANE COATING

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SELECTION DATA

GENERIC TYPE: Proprietary Linear Polyurethane

PRODUCT DESCRIPTION: Epo-Lux 520 is a chemical resistant aliphatic polyurethane specially formulated for brush & roller application. It is state of the art in gloss and color retention and this particular formula offers superior resistance to a wide variety of chemicals. Epo-Lux 520 is a dense, tight urethane, which means that it is particularly resistant to staining by inks, tires containing sulfur, and heavy wheel traffic.

RECOMMENDED FOR: Either interior or exterior surfaces, previously coated or bare, new or old. It is designed for application on metal, concrete, or masonry surfaces and is suitable for floors, walls, ceilings, tanks, and equipment. Specifically recommended for hangar floors, clean rooms, laboratories, printing plants, white rooms, and many other areas difficult to keep clean.

NOT RECOMMENDED FOR: Do not apply at temperatures below 30°F., or above 85% relative humidity, or over wet or damp surfaces. Not for Class I immersion service.

PHYSICAL PROPERTIES

RESISTANCE TO: (Splash & Spillage)	Acids: Very Good Alkali: Very Good Salts: Excellent Solvent: Excellent Skydrol* Excellent Cutting Oils: Excellent Water: Excellent
VOLUME SOLIDS:	56.5% +/- 2%
WEIGHT SOLIDS:	70% +/- 2%
MIX RATIO, VOLUME:	1 Part A to 2 Parts B
FLASH POINT:	16°F. (-8.88°C.) TCC
POT LIFE:	4 Hours, Maximum @ 77°F.
SHELF LIFE:	6 Months, Minimum
INDUCTION TIME:	30 Minutes
THINNER - REDUCTION:	10% maximum with Steelcote T-156
THINNER - CLEAN UP:	Steelcote T-156
APPLICATION TEMPERATURE:	30° - 95°F. (-1° - 32°C.)
SERVICE TEMPERATURE:	225°F. (107°C.) Maximum
GLOSS:	High Gloss
COLOR:	White, Clear, Silver Gray, and to order
PACKAGING:	3 gal. units
WEIGHT PER GALLON:	11.24 lbs. (5.11 kg) ± 2%
V.O.C. (Volatile Organic Compound):	3.44#/gal. (412 g/l)
AIM CATEGORY:	Industrial Maintenance Coating

COVERAGES

THEORETICAL COVERAGE:	906 square feet per gallon at 1 mil DFT (allow for application losses)
RECOMMENDED WET FILM THICKNESS:	4-6 mils
RECOMMENDED DRY FILM THICKNESS:	2-4 mils
DRYING TIME	
@ 77°F. (25°C.) 50% RH	
TO TOUCH:	1 - 2 Hours
TO RECOAT:	4 - 6 Hours
CHEMICAL RESISTANCE:	48 Hours - Good
FINAL CURE:	7 Days - Excellent

RECOMMENDED PRIMERS

TO FERROUS METALS:	Epo-Lux 221 Zinc Primer, Steelmastic 168; MCU 2100 Type VIII; Speedepoxy Gray Metal Primer; Epo-Lux 166
TO NON-FERROUS METALS:	Epo-Lux 166 with Add-A-Lume; Speedepoxy Gray Metal Primer with Add-A-Lume
TO CONCRETE:	Greenseal, Monomid Clear Sealer, Floor-Nu Penetrating Sealer, Floor-Nu Profile Surfer

*Skydrol is a registered trademark of Monsanto

SURFACE PREPARATION

TO STEEL: Surface must be clean and free from oil, grease, moisture, loose and foreign matter. For best performance, dry abrasive blast to a commercial finish in accordance with Steel Structures Painting Council SSPC-SP6 specification. Remove any dust and apply Steelcote recommended primer per label instructions as soon as possible after sandblasting and always before any flash rusting can occur. Power tool cleaning in accordance with SSPC-SP3 specification is acceptable for rusted steel where sandblasting is not possible. Topcoat over the primed surface at the appropriate time with Epo-Lux 520 per label instructions. When more than one coat of Epo-Lux 520 Coating is applied, apply the second coat within twenty-four (24) hours after the first coat. If this cannot be accomplished, surface must be sanded dull and wiped clean with T-156 to gain adhesion. Clean all tools and equipment with Steelcote T-156 after use.

TO NON-FERROUS SURFACES: Surface must be clean, dry, sound, and free from oil, grease, wax, and foreign matter. Degrease by solvent wiping with Steelcote T-181 in accordance with SSPC-SP1 specification. For white rust or weathered galvanized steel, prepare by degreasing and hand or power tool cleaning in accordance with SSPC-SP2 or SSPC-SP3 specifications in order to remove any loose rust or scale. Apply the Steelcote recommended primer per label instructions. When more than one coat of Epo-Lux 520 Coating is to be applied, apply the second coat within twenty-four (24) hours after the first coat. If this cannot be accomplished, surface must be sanded dull and wiped clean with T-156 to gain adhesion. Clean all tools and equipment with Steelcote T-156 after use.

TO CONCRETE OR MASONRY: For proper bonding, apply over a clean, dry, sound surface. Remove any existing oil, grease, wax, dirt, or foreign matter by washing with a solution of Steelcote 215 or Tri-Sodium Phosphate (TSP) and water or other suitable detergent. Flush thoroughly with clean water and allow to dry. Obtain "tooth" and remove any existing laitance in concrete floors by shot blasting to a 3 - 5 mil profile or etching with Steelcote Clean & Etch. If etching, apply Clean & Etch per label instructions, neutralize with a solution of two (2) cups aqua ammonia per five (5) gallons of water, flush clean with water, and allow to dry. Apply the Steelcote recommended primer per label instructions. Topcoat at the appropriate time with Epo-Lux 520 Coating per label instructions. When more than one coat of Epo-Lux 520 is to be applied, apply the second coat within twenty-four (24) hours after the first coat. If this cannot be accomplished, surface must be sanded dull and wiped clean with T-156 to gain adhesion. Clean all tools and equipment with Steelcote T-156 after use.

NOTE: Do not apply Epo-Lux 520 Coating over concrete containing release agents, curing compounds, or hardeners without consulting Steelcote's Technical Service Department for details.

TO PREVIOUSLY PAINTED SURFACES: For using the Epo-Lux 520 Coating clean the present surface thoroughly to remove any existing dirt, wax, oil, or other foreign matter with a suitable detergent. Test compatibility by applying the Epo-Lux 520 over a small area and allowing to dry at least thirty (30) minutes. If no wrinkling occurs and appearance looks normal, the application may continue. If the surface has been coated with an epoxy, polyurethane, or Epo-Lux 520 has been allowed to dry, the surface must be sanded dull and wiped clean with T-156 to gain adhesion. to assure a proper bond of the Epo-Lux 520 Coating.

APPLICATION EQUIPMENT

SPRAY: See Recommended Equipment Below
BRUSH: Only for small areas and touch-up. Use a clean, natural bristle brush. Reduce up to 10% if necessary with Steelcote T-156. Avoid overworking this material.
ROLL: On floors or flat surfaces product may be rolled then may be followed by quickly using flat E-Z Paint'r painting pad applicator if desired, or by pad application only. For floor application use strong back lighting to avoid skips or holidays.

	CONVENTIONAL SPRAY	AIRLESS SPRAY
Gun:	Binks 18 or equivalent	Pump Ratio: 28:1
Fluid Nozzle:	63	Gun: Graco 208-328 or equal
Air Nozzle:	63 PE or 63 PB	Tip Size: 0.009 - 0.013
Air Hose ID:	1/4"	Fan Size: 6" - 8"
Material Hose ID:	3/8"	Pressure: 2000 - 2500 psi
Needle:	63A	Material Hose ID: 1/4"
Pressure:	Pot: 10 - 15 psi	
	Atomization: 45 - 60 psi	

Use moisture oil traps.
Reduce up to 10% if necessary with Steelcote T-156.

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