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P-SERIES HIGH PERFORMANCE POLYURETHANE

Description

The P - Series polyurethane coatings are two package solvent based materials for high performance industrial applications. This coating is suitable for application to metals, plastic and composite surfaces, with or without pretreatment and primer coatings. The durability and chemical resistance of this line of urethanes make them well suited for a wide variety of finishing requirements both interior and exterior. Color and gloss can be formulated to match each customer's specifications.

Advantages

Excellent physical and chemical resistance - Air dry or force dry curing - Good exterior durability - Ideal for general industrial finishing - Applies with conventional spray equipment - Excellent re-coatability - Custom color and gloss.

Performance Characteristics

GLOSS (60 DEGREE): 90% (White)
VISCOSITY: Thinned, Ready to Spray:
19 – 24 seconds, #2 Zahn Cup
HARDNESS: 2H
FLEXIBILITY: Pass 1/8" Mandrel
COVERAGE:
Theoretical @ 1.0 mils DFT, No Loss
380 Sq Ft./Gallon
SHELF LIFE: 1 Year, Unopened
POT LIFE: 8-12 Hours Catalyzed/Reduced
DRY TIMES: @77°F, 50% R.H. (#600 Catalyst)
- To Touch: 20-30 minutes
- To Handle: 1-2 Hours
- To Package: 24 Hours
- Force Dry: 15 Minutes @ 250°F
AIR QUALITY DATA:
Thinned ready for spray: 5.5 lbs./gal. V.O.C.

WATER IMMERSION:
- Fresh, Salt, Distilled : 100 hours, no effect
SOLVENT RESISTANCE:
- Acetone : 100 rubs, slight softening
- Gasoline ; 100 rubs, no effect
- Xylene; 100 rubs, no effect
- Isopropanol : 100 rubs, no effect
- Skydrol 500B: Slight softening after 4 days
COLD CHECK: 16 Cycles: Excellent
IMPACT RESISTANCE
- Direct: 85 in.lbs.
- Reverse: 60 in.lbs.
TABER ABRASION: cs17, 1000g Load
- 1000 cycles, 80mg loss
STAIN RESISTANCE
- Shoe Polish: Excellent
- Mustard & Lipstick: Excellent
- Methiolate: Fair

APPLICATION INFORMATION

MIXING RATIOS: Interior Applications: Mix by volume six (6) parts of Part A to one (1) part #600 Interior Catalyst to one (1) part EF-101 Urethane Thinner. **Exterior Applications:** Mix by volume ten (10) parts of Part A to one (1) part #800 Exterior Catalyst to one (1) part EF-101 Urethane Thinner.

APPLICATION: This material may be applied by any conventional spray method. Recommended atomizing air pressure is 30 psi. Dry film thickness should be in the range of 1.0 - 2.0 mils. to obtain the listed performance characteristics.

CURING: At 77° F, sufficient cure will be achieved after 1 week. The finish can also be force cured by heating at 250° F for 15 minutes, following a 30 minute dry time. A five any set cycle should be allowed before any physical testing is to be done.

SURFACE PREPARATION: All surfaces to be coated must be free of dirt, oils, greases, polishing compounds, fingerprints, and any other foreign matter including oxidation products.

COMPATIBLE PRIMERS AND INTERMEDIATES: Primers: 1006 Series Epoxy Primer, 1012 Series Epoxy Primer, 1009 Series Epoxy Primer, WE2K-720 Waterborne Epoxy Primer, #137 Red Oxide Primer, P-636 Red Oxide Primer, Green Wash Primer.

Intermediates: Spectrafil Urethane Primer Surfacer, 2121 Epoxy Primer Surfacer.

SAFETY & HANDLING INFORMATION

FIRE & EXPLOSION DATA: In case of fire use foam, CO₂, or dry chemical firefighting apparatus. The use of self-contained breathing apparatus is recommended for firefighters. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool. Avoid spreading burning liquid with water used for cooling purposes.

HEALTH & FIRST AID:

EYES: Safety glasses, chemical goggles, and/or face shields are recommended to safeguard against potential eye contact. If this product comes in contact with the eyes, flush with large quantities of water for at least 15 minutes. Seek medical attention.

SKIN: The use of impermeable gloves is advised to prevent skin irritation on sensitive individuals. If this product comes in contact with the skin, wash with a mild soap and large quantities of water. Seek medical attention if irritation persists.

INHALATION: The use of respiratory protection depends on vapor concentrations above the time-weighted TLV; use a NIOSH approved cartridge respirator or gas mask. If breathing difficulties, dizziness, or lightheadedness occur when working in areas with high vapor concentrations, seek fresh air. If difficult breathing continues, administer oxygen until medical assistance can be rendered. If breathing stops, begin artificial respiration and seek medical attention.

HANDLING: General mechanical ventilation may be sufficient to keep vapor concentrations within specified TLV ranges. If general ventilation proves inadequate, supplemental local exhaust may be required. Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation, and sufficiently ground containers when transferring this material. Dispose of this product in accordance with applicable local, county, state, and federal regulations.

PRODUCT LIMITATIONS

Do not vary catalyst ratio, this material has been formulated to achieve its optimum performance properties at listed ratios. Do not heat while applying, mixing, or storing. Heat shortens the pot life and shelf life of the materials. Protect all Spectrum Polyurethane products from moisture, heat, and store inside in ambient conditions. Temperature and

All recommendations, statements, and technical data contained herein are based upon tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his/her own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his/her use of the product.