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2 - COMPONENT WATER BASE POLYURETHANE ENAMELS

DESCRIPTION

This line of urethane coatings are two component water base finishes, for application to metal, plastic, and wood surfaces. Exhibiting an excellent balance of chemical and physical properties; cured films remain tough and durable for both interior and exterior uses. These materials are a practical answer to the application problems of high solids two component systems. These coatings have a V.O.C. of between 1.0 - 2.0 lbs./gal. minus water depending on the gloss and color formulated, and are non flammable.

ADVANTAGES

- Excellent physical and chemical resistance - Air dry or force dry curing - Excellent exterior durability - Ideal for general industrial finishing - Meets most environmental requirements - Applies with conventional spray equipment - Excellent recoatability - Compatible with a wide range of surface pretreatments and primers - Custom color and gloss - Wide variety of most industry standard colors available - No free isocyanate hazard -- Easy water clean up -

PERFORMANCE CHARACTERISTICS

GLOSS 60 degree geometry :
- -Semi Gloss : 15 - 25%
- -Flat : less than 5%

PENCIL HARDNESS : H - 2H
FLEXIBILITY : PASS 1/8" 180 deg. bend
VISCOSITY #4 ZAHN : 15 - 18 seconds
POT-LIFE : Approximately 2 hours
COVERAGE : 600 square feet per gallon at 1 mil dry film thickness; smooth coat no application loss.
SHELF LIFE : 1 Year from date of manufacture, recertifiable.
DRY TIMES at 77 degrees F.
- - To Touch : 2 - 3 hours
- - To Handle : 6 - 8 hours
- - To Pack : Overnight
- - Full Cure: 10 days

AIR QUALITY DATA :
- - Less than 1.5 lbs. / gal. V O C average

ADHESION : Cross hatch tape pull test

-Steel	100%	-Aluminum	100%
-Brass	100%	-Fiberglass	100%
-ABS	100%	-Lexan	100%

IMPACT RESISTANCE :
- - Forward 100 in. lbs.
- - Reverse 100 in. lbs.

HUMIDITY RESISTANCE : PASS 500 hours
SALT SPRAY RESISTANCE: PASS 365 hours
CHEMICAL RESISTANCE:10 minute spot test.
-No effect with; Isopropanol, Acetone, Toluene, Gasoline,1N NaOH, 5% Ammonia, IBM Cleaner, 2% Tide, Fantastic, Chlorine Bleach

APPLICATION INFORMATION

MIXING RATIO : Follow the mixing ratios listed on the back of the cans. The mixing ratios may vary depending on the gloss, color, and or specific performance characteristics built in to each system. Always use deionized water to thin these water base urethane coatings.

APPLICATION : This material may be applied by any conventional spray method. Recommended atomizing air pressure should be between 35 - 45 psi. For pressure pots; Line pressure of 55 - 65 psi., pot pressure between 6 - 10 psi., atomizing air can be adjusted to desired pattern. Dry films should be in the range of 2.0-3.0 mils. to obtain the listed performance characteristics. When applying, do not exceed 7 wet mils due to the possibility of blistering with excessive one coat wet film builds.

CLEAN - UP : Rinse all guns and mixing equipment immediately after use with water. Dried material will not redissolve in water. Following the water rinse, insure that all remaining water and paint residue has been removed by rinsing and cleaning with Acetone or Isopropanol.

CURING : At 77ºF, sufficient cure will be achieved after 10 days. The coating may be force dried by heating in a vented oven at 120 - 180ºF for 15 - 20 minutes, following a 1 hour dry time. A five day set cycle should be allowed before any testing can 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, 1007, & 1012 Series Epoxy Primers, P=636 & #137 Red Oxide Enamel Primers, WE2K-720 Waterborne Epoxy Primer, Green Pre-treatment Wash Primer (DOD-P-15328), most Zinc/Iron Phosphate Conversion Coatings, most Anodize & Alodine Conversion Coatings.
Intermediates: Spectrafil-P & Spectrafil-HST Urethane Primer Surfacers, 2121 Epoxy Primer Surfacers, and all Spectrum Water base acrylic and epoxy primers.

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 material. Dispose of this product in accordance with applicable local, county, state, and federal regulations.