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SPECTRAFIL SERIES POLYURETHANE PRIMER SURFACERS

DESCRIPTION

The SPECTRAFIL series of high performance polyurethane primer surfacers, are two component polyurethane coatings designed to fill or hide surface defects or imperfections on metal, castings, plastic, wood, and structural foam substrates. These materials are for use specifically as a primer or intermediate coat to build up coating thickness, and promote the adhesion of the topcoat. SPECTRAFIL may be topcoated with virtually any industrial finish coating available.

ADVANTAGES

- Formulated for thick application to a wide variety of plastic, metal, and cast materials - Serves both as a primer/surfacer or an intermediate coating - Free of lead and chromate hazards - Can be air or force dried - No critical recoat time and easily sanded - Promotes the adhesion of topcoats and provides protection to the substrate - Availability of V.O.C. compliant finishes - Non-photochemically reactive solvent blends -

PERFORMANCE CHARACTERISTICS

PHYSICAL PROPERTY	SPECTRAFIL - P	SPECTRAFIL - HST
COLOR	Gray, White, Tan	White, Gray
GLOSS	Matte	Matte
VOLUME SOLIDS: In Can:	44%	62%
Catalyzed & Reduced :	38%	60%
VISCOSITY	12 - 16 #4 Zahn seconds	14 - 17 #5 Zahn seconds
COVERAGE: Sq. feet per gallon at 1 mil dry, no loss	700	990
POT LIFE : 77ºF & 50% RH:	6 - 8 hours	2 - 4 hours
DRY TIMES : To Touch :	20 - 30 minutes	30 - 45 minutes
To Handle :	1 hour	1 - 2 hours
To Sand :	4- 6 hours	4 - 6 hours
To Recoat :	30 minutes	1 hour
VOC: In Can:	3.9 lbs./gal.	2.6 lbs./gal.
Catalyzed & reduced :	4.03 lbs./gal.	2.86 lbs./gal.

APPLICATION INFORMATION

MIXING RATIOS : SPECTRAFIL-P is to be mixed by volume eight (8) parts A to one (1) part #600 Urethane Catalyst, and thinned with one (1) part of EF-101 Urethane Thinner. SPECTRAFIL-HST is to be mixed by volume five (5) parts A to one (1) part #601 High Solids Urethane Catalyst, and thinned 5% with HST Urethane Thinner. Adding more thinner to these ratios will lower the volume solids, and raise the VOC emissions above those listed..

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 - 3.5 mils. to obtain the listed performance characteristics.

CURING : At 77ºF, sufficient cure will be achieved after 7 - 10 days. The coating may be force dried by heating in a vented oven at 200 - 220ºF 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.

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.

PRODUCT LIMITATIONS

- Do not vary catalyst ratios: These materials have been formulated to achieve their optimum performance properties at the listed mixing ratios - Use only Spectrum approved products when changing or adding any other components to these coatings - Do not heat while applying, mixing, or storing; heat shortens the pot life and shelf life of the materials - Protect all Spectrum urethane products from moisture, and store inside - Allow sufficient drying times before sanding or the sanding media may clog - Temperature will effect the drying time, handling time, sanding time, and cure rate.