



Polythane – 1005

Two component Aliphatic Polyurethane

DESCRIPTION:

A revolutionary new type of Aliphatic Polyurethane coating. The uniqueness of this coating is that for the first time the toughness and durability of Polyurethane is available in a coating which is high build, glossy finish, attractive top coat having excellent resistance to Acids, Alkalis, fumes, solvents, salts, sea water, water and other chemicals. Polythane meets the highest demands of weather resistance, color stability, gloss retention, chalk resistance as well as scratch and abrasion resistance.

RECOMMENDED USES:

Industrial, Commercial and Institutional floors, Patios, Walkways, Garages, Ramps, Walls, Silos, Bridges, Buildings, Vaults and clean rooms. Food and Pharmaceuticals production areas, schools, fire houses, pulp and paper, petrochemicals, offshore rigs, heavy marine, airplane hangers, new work facilities, battery rooms, car dealerships, electroplating facilities, Art galleries, waste treatment plants where a highly fumes resistant and attractive coating is desired. Polythane is excellent protective coating for tanks, railings, fascias, pipes, ducts, siding, window frames and equipment.

ADVANTAGES:

- Available in clear and colors.
- Available in high gloss and flat finishes.
- Room temperature curing as low as 40° F.

PROPERTIES:

Test	Results	Method
Tensile strength	6575PSI	ASTMD-638
Tensile Elongation	100%	ASTMD-638
Adhesion tested on aluminum, Steel, Concrete, Wood.	5B, Average 100PSI	ASTMD-3359
Tack free time @ 75° F & 50% R.H. hrs	5	
Tack free time @ 75° F & 50% R.H. hrs (with catalyst)	3	
Initial cure hours.	24	
Final cure hours.	48	
Sword Hardness	60	ASTMD-412
Abrasion Resistance	.3 mg loss	CS-17 wheel, 1 kg Pressure, 1000 cycles.
Flexibility	Excellent	ASTMD-522, 1/8" Mandrel
Impact Resistance		
Direct	Passed	160 lbs. sq/in
Reverse	Passed	160 lbs. sq/in

Test	Results	Method
Weatherability	Excellent	2000 hrs. Q.U.V.
Viscosity @ 75° F	150-350	ASTMD-2392
Solids % (clear)	50 ± 2	
(pigmented)	65 ± 2	
Mixing Ratio by Volume	2 Part Base (part A)	
	1 Part Hardener (part B)	
Application	Roll, spray or brush coverage	200-300 sq. ft./gallon
	The coverage may vary with the condition of the substrate.	
Dry Film thickness per coat	4-6 Mils.	

PRIMERS:

Primer is not required for concrete. For steel surfaces Poly Armor Coat Primer is recommended.

SURFACE PREPARATION:

Remove any oil, grease, dust, dirt or loose paint from the surface to be coated. All surfaces should be completely dry.

CLEAN UP:

Use Polythane thinner. Clean equipment immediately.

CHEMICAL RESISTANCE:

Solvents:

Toluene	Excellent
Xylene	Excellent
Mineral spirit	Excellent
Benzene	Excellent
Gasoline	Excellent
Turpentine	Excellent
Jet Fuel	Excellent
Isopropyl alcohol	Excellent
Methylcellosolve Act	Excellent
Isopropyl Alcohol	Excellent
Methylene Chloride	(N.R.)*
Trichloroethane	(N.R.)*
MEK	Excellent
Acetone	Excellent

Alkalis:

Sodium Hydroxide	Excellent
Ammonium Hydroxide	Excellent
Analine	Excellent

Miscellaneous Chemicals:

Skydrol	Excellent
Freon	Excellent
Salt Fog	Excellent
Jet Fuel	Excellent
Detergents	Excellent
Acid Rain	Excellent
Brake Fluid	Excellent
Salt solutions	Excellent

Acids:

Sulphuric Acid	Excellent
(Battery Acid)	
Nitric Acid	Excellent
Hydrochloric Acid	Excellent
(Muriatic Acid)	
Phosphoric Acid	(N.R.)*
Hydrofluoric Acid	(N.R.)*
Chromic Acid	(N.R.)*
Acetic Acid	Excellent
Citric Acid	Excellent
Oleic Acid	Excellent
Lactic Acid	Excellent

NON-WARRANTY

This product is made under strict quality control procedures of Delta Polymers, Inc. No guarantee is given or implied. We assume no responsibility for coverage, performance or injuries resulting from use. Liability if any is limited to replacement of products which are defective in manufacture. No other warranty or guarantee of any kind is made by the seller, express or implied, statutory by operation or law or otherwise, including merchantability and fitness for a particular purpose.

CAUTION

Avoid contact with eyes and prolonged contact with skin. In case of eye contact, flush with plenty of water for at least 15 minutes and seek medical attention. For skin wash with soap and water. KEEP AWAY FROM CHILDREN. For details see product data sheet and M.S.D.S.