Polyset

Protective Coatings for PERFORMANCE

Ply-Guard TC

Ply-Guard TC is a two component, high solids aliphatic polyurethane. This product offers a remarkable combination of performance properties not found in other polymer coatings. Ply-Guard TC produces protective films which are hard, flexible and very impact resistant. These coatings feature high abrasion and scratch resistance, exterior durability, easy soil release, and excellent resistance to a broad range of chemicals. For exterior applications, a UV stabilizer package is incorporated to insure long term chalk resistance and gloss retention. A special accelerator is available when rapid project turnaround is required.

Ply-Guard TC has been designed as a high performance top coat in various protective coating and seamless flooring applications. It provides maximum cleanability and stain resistance when used as a finish coat in color chip flooring or epoxy-quartz flooring. This coating is ideally suited for clean-room floors, automotive repair facilities, aircraft hangars, and other high-wear areas requiring resistance to fuels and chemicals. When used as a finish coat in wall coating systems, anti-graffiti properties are greatly enhanced.

Chemical Composition: Saturated polyester crosslinked with aliphatic polyisocyanate.

Colors & Limitations

- Do Not Use on Unprimed Substrate
- Must be applied at recommended 6-8 WFT

Technical Bulletin

Technical Data:

Mix Ratio, by Volume:	2:1
Solids Content, by Weight, %:	62.5
Solids Content, by Volume, %:	57.5
VOC, Pigmented, gr./lt.:	395
Viscosity, cps, 77°F, average:	500
Recommended Coverage Rate (ft2/gal.):	255-270
Pot Life , 77°F, 1 Quart Mass, Minutes:	60-90
Pot life is reduced by increasing the temperature and/or mass	
Dry Times, 77°F	
Dry To Touch, Hours:	4-6
Recoat, Hours:	12-24
Light Traffic, Hours:	24
Full Cure, Days:	7
Higher temperatures will shorten cure time and lowe	er tempera-

Higher temperatures will shorten cure time and lower tempera tures will lengthen cure time.

Properties Performance

Gloss , 60°:	90-95	
Hardness, Sward;	30	
Taber Abrasion (ASTM D4060)		
1000 gm. Load 1000 Cycles, CS-17 Wheel:		
	34 mg loss	
Flexibility (ASTM D222):	Passes 1/8 inch	
Impact Resistance (ASTM D2794):		

Passes 160 inch-pound direct and reverse

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Chemical & Stain Resistance		
(ASTM D1308 24 Hour Immersion)		
Urine	No Effect	
Blood	No Effect	
Whiskey	No Effect	
Black Ink	No Effect	
Brake Fluid	No Effect	
Gasoline	No Effect	
Skydrol B-4	No Effect	
Hydraulic Fluid #83282	No Effect	
Mineral Spirits	No Effect	
Xylene	No Effect	
МЕК	Film Softened	
50% Sodium Hydroxide	No Effect	
25% Hydrochloric Acid	No Effect	
25% Sulphuric Acid	No Effect	
25% Acetic Acid	No Effect	
25% Nitric Acid	Film Blistered	

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