

TSP DURAVUE® 1500 Fact Sheet Abrasion Resistant Coatings for Outdoor Applications

Description	• 0000 Steel Wool 2 P.S.I. 10 double rubs,
	No damage
TSP DURAVUE® 1500 hardcoatings combine	
silicone-based abrasion resistance with	Chemical Resistance
excellent optical clarity, resistance to chemical	ASTM D-1308 resistance to benzene,
attack, and exceptional stability during UV	toluene, xylene, methylene chloride,
light exposure. DURAVUE [®] 1500 can be	acetone, ethyl acetate, and 40%
applied to a wide variety of plastic windows,	sulfuric acid:
lenses, filters and panels, including plastic	No damage
sheets up to 5' X 10'.	
	Saturated cotton ball test: 30 minutes
Applications	with gasoline, antifreeze, brake fluid,
This DURAVUE [®] coating is used for	and diesel fuel:
applications which require chemical or	No damage
abrasion resistance optical clarity and	
outdoor weather protection Examples	Adhesion
include:	ASTM D3359-87, Scribed tape, 3 pulls over
	10 x 10 scribe:
Architectural glazing	100% adhesion
Vehicle glazing	
Outdoor signage	 65°C water immersion, 10 days:
Safety & security windows	100% adhesion
Military & bullet-resistant glazing	
Prison and detention glazing	 Scribed tape, 2000+ hrs. QUV exposure;
Instrument and gauge lenses	cycle 8 hrs @ 70°C, 4 hrs @ 50°C:
	100% adhesion
Typical Performance	OUV Resistance
i ypicai i eriormance	Microcracking with 2000 hrs
The following results describe typical	QUV exposure:
performance of DURAVUE® 1500 coatings.	0% cracking
Contact your TSP Application Engineer for	
more details on your specific application.	 Delamination with 2000 hrs
	QUV exposure:
Abrasion Resistance	0% delamination
• ASTM D-1003/1044:	
Taber abrasion test (500 cycles, 500 gm	Yellowness Resistance
load with CS10F wheel): <5-8% haze	 ∆Yellowness Index (YID 1925) @
	2000 hrs QUV exposure: <2.0 DE
(Ref: Uncoated polycarbonate = 35%)	

In as much as TSP does not have control over the use to which other parties may put material, it can not guarantee that the same results as those described above will be obtained. Each user should make their own tests for determining the materials suitability for their particular application. Breakage warranty is the responsibility of the material manufacturer.

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