PRODUCT DATA FOR STEPGUARD WATER-BASED, SELF-CATALYZED POLYURETHANE FINISH

Appearance:	Translucent liquid.	**Odor:**	Minimal
Viscosity:	50-60 CPS ASTM D2196-91	**VOC:**	2.3 lbs per gallon (276 grams per liter) ASTM D3960-98
Solids:	36% by weight ASTM D2369-98 Theoretical 35% by volume	**WPG:**	8.5 lbs. - 8.7 lbs. ASTM D1475-96
Heat Stability:	30 Days 105 degrees (F)	**Freeze Thaw Stable:**	20 cycles
Cure Rate:	dry to recoat - 1 hour dry to screen buff - 24 hours full cure - 14 days	**Gloss:**	Gloss - 95% + @ 60° angle Semi-gloss - 55-65% @ 60° angle Satin - 25-35% @ 60° angle ASTM D523-94
		Spread Rate:	560 square feet per gallon 1 mil DFT

TESTING RESULTS OF FINISHED PRODUCT

Test:	Method:	Results:	Explanation:
Taber abrasion	ASTM D4060-95	21mg @ 1,000 cycles CS-17 wheel 1,000g load.	Taber abrasion test determines the durability of the finish. The lower the number, the more wear-resistant the finish.
Koenig Hardness	ASTM D4366-95	175 sec.	Koenig hardness determines the hardness of the finish. A higher number represents a harder finish.
Sward Hardness	ASTM D2134-93	52	Sward hardness determines the hardness of the finish. A higher number represents a harder finish.
Cross hatch (CH) adhesion	ASTM D3359-97	100%	CH adhesion determines the ability of the finish to completely adhere. A higher number represents stronger bond with substrate.
Light stability	ASTM D2620-95	Passes 2000 hours QUV	Ability of the finish to resist yellowing, loss of gloss and fading. A higher number represents longer stability of a finish.
Impact resistance	ASTM D2794-96	50 lbs / sq. inch sample deformed wood coating not lifted or cracked.	Ability of the finish to remain flexible upon direct impact and its ability to resist lifting and cracking.
Resistance to shoe scuffing		High resistance.	Ability of the finish to resist permanent black marks.
Hot and cold check resistance	ANSI A161.1-1990	Passes 50 cycles with no film failure.	Ability of the finish to remain flexible under standard floor expansion and contraction.

Test:	Method:	Results:	Test:	Method:	Results:
Chemical resistance to:	ANSI A161.1-1990 24 hour exposure		**Chemical resistance to:**	ANSI A161.1-1990 24 hour exposure	
Vinegar		No effect	Coffee		No effect
Ketchup		No effect	Tea		No effect
Margarine		No effect	Milk		No effect
Mayonnaise		No effect	Red Ink		No effect
Cooking oil		No effect	Oil based paint		No effect
Olive oil		No effect	Nail Polish remover		No effect
Water		No effect	Shoe Polish		No effect
Orange Juice		No effect	Alcohol-100 proof		No effect
Grape Juice		No effect	Mustard		Very slight stain

Envirocoat, Inc.
P. O. Box 1547
Skokie, IL 60077