





Excellent exterior durability & color retention

Excellent adhesion to multiple substrates

Outstanding water resistance

Wide range of applications







3 Year Exterior Exposure Florida 45° Diagonal South

Substrate Southern Yellow Pine

Test Method: AC-04-35

Exposure Florida 45° South

System: Exterior 450 High Gloss System

	Ext. 450	Ext. 450	Competitor	Competitor	Competitor	Competitor
			A	A	В	В
	Untinted	Tinted	Untinted	Tinted	Untinted	Tinted
Gloss @ 60/20 Initial (*B.E.)	67/14	65/10	75/20	70/12	74/18	72/12
Gloss @ 60/20 Unwashed	7/1	7/1	7/1	7/1	3/1	3/1
Gen Appearance	7	7	7	7	6	7
Dirt Pickup	6	6	7	7	6	6
Mildew	8	8	8	8	7	8
Blistering	10	10	10	10	10	10
Grain Cracking	9	9	9	9	3	9
Flaking	10	10	10	10	10	10
Yellowing	10	10	10	10	2	10
Chalking	5	5	5	5	3	5
Total	65	65	66	66	47	65

*B.E.: Before Exposure

Note: All competitor samples were formulated utilizing suggested competitor starting point formulas. All tinted systems contained 2 oz/gal of Huls 888-7214 Phthalo Blue. All tested samples were formulated at PVC of 17- 18%.







Outdoor Durability Exterior 450 White Pigmented

Starting point formulation C-830

		Initial			1 Year			3 Years			5 Years			8 Years	10 years	12 years	
	1 layer	2 layers	3 layers	1 layer	2 layers	3 layers	1 layer	2 layers	3 layers	1 layer	2 layers	3 layers	1 layer	2 layers	3 layers	3 layers	3 layers
Cracking surface	10	10	10	7	9	9	8	9	9	6	8	9	4	8	9	7	7
Cracking edges	10	10	10	8	9	9	8	9	9	4	5	5	2	4	5	4	4
Chalking	10	10	10	10	10	10	10	10	10	9	9	9	-	8	8	7	7
Blistering	10	10	10	10	10	10	10	10	10	10	10	10	-	10	10	10	10
Flaking	10	10	10	10	10	10	10	10	10	8	9	9	-	9	9	8	8
Dirt pick up	10	10	10	6	6	6	6	6	6	6	6	6	~	6	6	5	4
Overall performance	10	10	10	8	9	9	8	9	9	5	7	7	4	6	7	6	6
Key:										ĺ							
10 = Excellent																	
0=Poor																	
Exposure:	Ang	gle:45° (The Net	herland	ls)	3 1	ayers C	-485: dry	y filmthio	ckness	100µm						
	5	Southsid	le			3 la	ayers C	-830: dry	y filmthio	ckness	120µm						
	8	Substrat	ostrate: pine wood														







Outdoor durability Exterior 450 High Gloss System

Starting point formulation C-485

	Initial 1 Year				3 Years			5 Years	_		6 Years		8 years	10 years			
	1 layer	2 layers	3 layers	1 layer	2 layers	3 layers	1 layer	2 layers	3 layers	1 layer	2 layers	3 layers	1 layer	2 layers	3 layers	3 layers	3 layers
Cracking surface	10	10	10	4	8	10	3	8	10	1	6	9	I	6	8	8	5
Cracking edges	10	10	10	9	9	10	5	9	10	1	2	4		1	4	4	3
Blistering	10	10	10	10	10	10	10	10	10	-	10	10	-	10	10	10	8
Flaking	10	10	10	8	10	10	8	10	10	-	9	9	-	9	9	9	8
Dirt pick up	10	10	10	9	9	9	9	9	9	÷	9	9	-	9	9	9	9
Overall performance	10	10	10	5	9	10	4	9	10	1	5	7	1	5	7	7	5

Key:

10 = Excellent

0 = Poor

Exposure:

Angle:45° Southside Substrate: pine wood 3 layers C-485: dry filmthickness 100µm 3 layers C-830: dry filmthickness 120µm





PANEL		WL	XXV	65 A	WL	XXV	65B	WL	XXV	68A	WL	XXV	68B			WL	XXV	79A	WL	XXV	79B	WL	XXV	82A	WL	.XXV	82B
SUBSTRATE		Ha	rdie I	Brd	Ha	rdie I	Brd	Ha	rdie I	Brd	Ha	rdie I	Brd			Ha	rdie E	Brd	Ha	rdie E	Brd	Ha	rdie I	Brd	Ha	urdie I	Brd
PIGMENTED			White)		White)	8	White	9		White		-	1	Phthalo Blue		Blue	Pht	nalo E	Blue	Pht	halo l	Blue	Phthalo Blu		Blue
PRIMER		Sel	lf Prin	ned	Se	fPrin	ned	Se	lf Prin	ned	Se	lf Prin	ned			Se	fPrim	ned	Se	fPrin	ned	Se	lf Prin	ıed	Se	lf Prin	ned
TOPCOAT				Exter	ior 45	0			l	Exteri	or 45 ()						Exteri	or 45	0				Exter i	ior 45	0	
COATS		1	2	3	1	2	3	1	2	3	1	2	3			1	2	3	1	2	3	1	2	3	1	2	3
INITIAL																											
Initial Gloss @ 60		23	41	59	20	45	61	31	45	56	31	54	62			26	44	51	19	34	53	23	40	49	18	38	46
Initial Gloss @ 20		4	7	17	4	9	18	6	10	12	6	16	17			4	9	11	3	6	13	4	9	10	3	8	11
24 MONTHS																											
Gloss @ 60		14	24	37	13	31	32	19	22	28	17	32	33			14	23	28	12	21	27	15	29	28	14	19	27
Gloss @ 20		3	3	4	2	4	4	3	3	3	3	4	4			2	2	3	2	2	2	2	3	3	2	2	2
Gen Appearance	1-10	9	9	9	9	9	9	9	9	9	9	9	9		1-10	9	9	9	9	9	9	9	9	9	9	9	9
Dirt Pickup	1-10	9	9	9	9	9	9	8	8	8	8	8	8		1-10	8	8	8	8	8	8	8	8	8	8	8	8
Mildew	1-10	10	10	10	10	10	10	10	10	10	9	10	10		1-10	10	10	10	9	10	10	9	10	10	9	10	10
Blistering	1-10	10	10	10	10	10	10	10	10	10	10	10	10		1-10	10	10	10	10	10	10	10	10	10	10	10	10
Grain Cracking	1-10	10	10	10	10	10	10	10	10	10	10	10	10		1-10	10	10	10	10	10	10	10	10	10	10	10	10
Flaking	1-10	8	8	10	8	10	10	9	10	10	9	10	10		1-10	9	10	10	9	10	9	9	8	10	8	10	10
Yellowing	1-10	10	10	10	10	10	10	10	10	10	10	10	10		1-10	6	6	6	6	6	6	6	6	6	6	6	6
Chalking	1-10	6	6	6	6	6	6	4	6	6	6	4	5		1-10	10	10	10	10	10	10	10	10	10	10	10	10
Total		72	72	74	72	74	74	70	73	73	71	71	72			72	73	73	71	73	72	71	71	73	70	73	73

Exposure Wilmington, MA – 24 Month – 45° South – Hardyboard Pre-Primed





PANEL		FL	XXV (65A	FL	XXV 6	65B	FL	XXV	68A	FL	XXV	68B			FL	XXV7	79A	FL	XXV 7	79B	FL	XXV 8	32A	FL	XXV 8	32B
SUBSTRATE		Ha	rdie E	Brd	Ha	rdie E	Brd	Ha	rdie I	Brd	На	rdie I	Brd			Ha	rdie E	Brd	Ha	rdie E	Brd	Ha	rdie E	Brd	Ha	rdie I	3rd
PIGMENTED		,	White	9		White	(White	1		White	;			Pht	nalo E	Blue	Pht	nalo E	Blue	Pht	nalo E	Blue	Pht	halo I	3lue
PRIMER		Sel	fPrin	ned	Se	fPrin	ned	Sel	f Prin	ned	Se	lf Prin	ned			Sel	f Prin	ned	Sel	f Prim	ned	Sel	f Prin	ned	Se	lf Prin	ıed
TOPCOAT			E	xterio	<mark>r 450</mark>				E	Exteri c	or 450)						Exteri	or 45	0				Exteri	or 45	0	
COATS		1	2	3	1	2	3	1	2	3	1	2	3			1	2	3	1	2	3	1	2	3	1	2	3
INITIAL																											
Initial Gloss @ 60		20	47	57	24	48	53	31	49	49	25	44	60			16	34	50	16	41	53	22	38	47	25	43	46
Initial Gloss @ 20		4	11	16	4	12	13	6	11	11	4	11	16			3	7	13	3	8	14	3	8	9	4	9	8
24 MONTHS (9/24/03)																											
Gloss @ 60		8	10	8	8	12	11		-	-	-		-			4	5	8	8	9	7	6	7	7	6	6	7
Gloss @ 20		1	1	1	1	2	2	-	-	-	-	~	~	Í		1	1	1	1	1	1	1	1	1	1	1	1
Gen Appearance	1-10	9	9	9	9	9	9	-	-	~	-	~	-		1-10	9	9	9	9	9	9	8	8	8	8	8	8
Dirt Pickup	1-10	7	6	6	6	6	6		-	-	Ξ.		-		1-10	5	5	5	5	5	5	5	5	5	5	5	5
Mildew	1-10	10	10	10	10	10	10	-	-	-	1	-	÷		1-10	9	10	10	9	10	10	9	10	10	9	10	10
Blistering	1-10	10	10	10	10	10	10	-	-	-	-	-	-		1-10	10	10	10	10	10	10	10	10	10	10	10	10
Grain Cracking	1-10	10	10	10	10	10	10	-	-	-	-	-	-		1-10	10	10	10	10	10	10	10	10	10	10	10	10
Flaking	1-10	10	10	10	10	10	10	i.	-	-		-	-		1-10	10	10	10	10	10	10	10	10	10	10	10	10
Yellowing	1-10	10	10	10	10	10	10	×	-	-	-	-	-		1-10	8	6	6	8	6	6	4	4	4	4	4	4
Chalking	1-10	7	4	4	7	4	4	ж	-	-		-	-		1-10	10	10	10	10	10	10	10	10	10	10	10	10
Total		73	69	69	72	69	69			Board	d Los	t				71	70	70	71	70	70	66	67	67	66	67	67

 $Exposure \ FLORIDA-24 \ Month-45^{\circ} \ South-Hardyboard \ Pre-Primed$

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			Pres	sure T	reated I	Pine				
	51S-2	27A	51S-2	27B	51S-2	28C	51S- 2	28D		
	WB-4176	Neutral	WB-4176	Neutral	WB-4176	Neutral	WB-4176 Neutral			
	1 cc	oat	1 co	oat	2 co	ats	2 co	ats		
	Un-Primed	Primed	Un-Primed	Primed	Un-Primed	Primed	Un-Primed	Primed		
-	51s-15 Red	51s-15 Red								
	Inita	ail	Initi	al	Initi	al	Initial			
Gloss @ 60	5	10	8	11	10	13	10	12		
Gloss @ 85	8	17	14	16	18	24	15	22		
Adhesion	5A	5A	5A	5A	5A	3A	5A	4 A		
	1.5 у	rs.	1.5 y	rs.	1.5 y	rs.	1.5 y	rs.		
Gloss @ 60	6	6	6	5	7	7	6	7		
Gloss @ 85	11	13	14	16	14	15	11	16		
Adhesion	5A	5A								
	4.5 y	rs.	4.5 y	rs.	4.5 y	rs.	4.5 y	rs.		
Gloss @ 60	4.9	6.1	3.4	2.9	5	5.3	6.6	7		
Gloss @ 85	8.6	13.8	6.5	7.3	12.4	13	15.4	17.5		
Adhesion	5A	5A								

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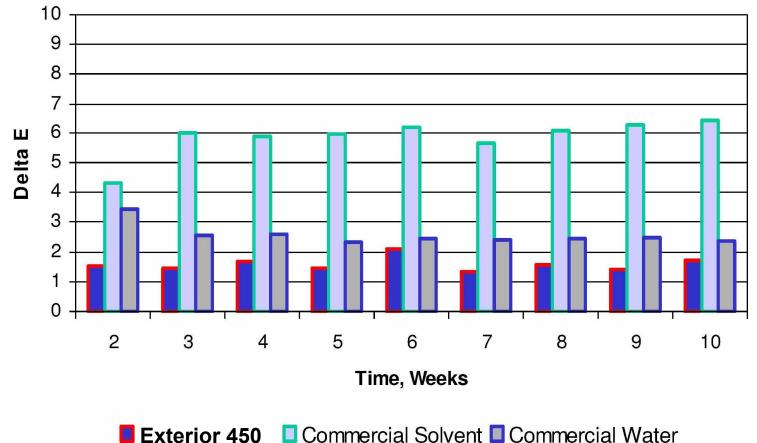


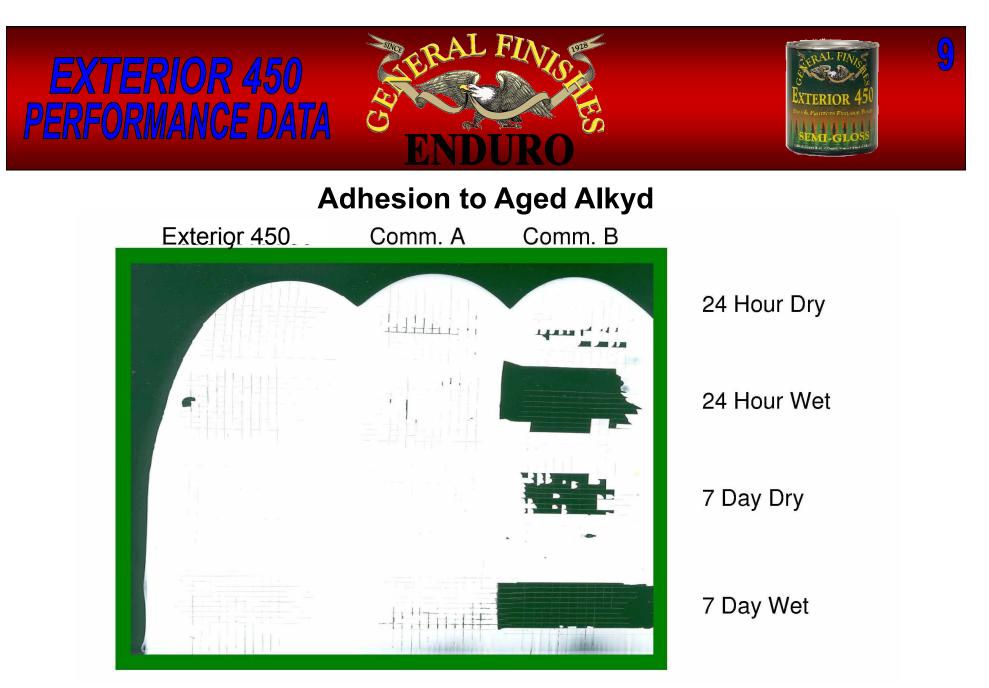
Solid Base 4.5 yrs. Exposure

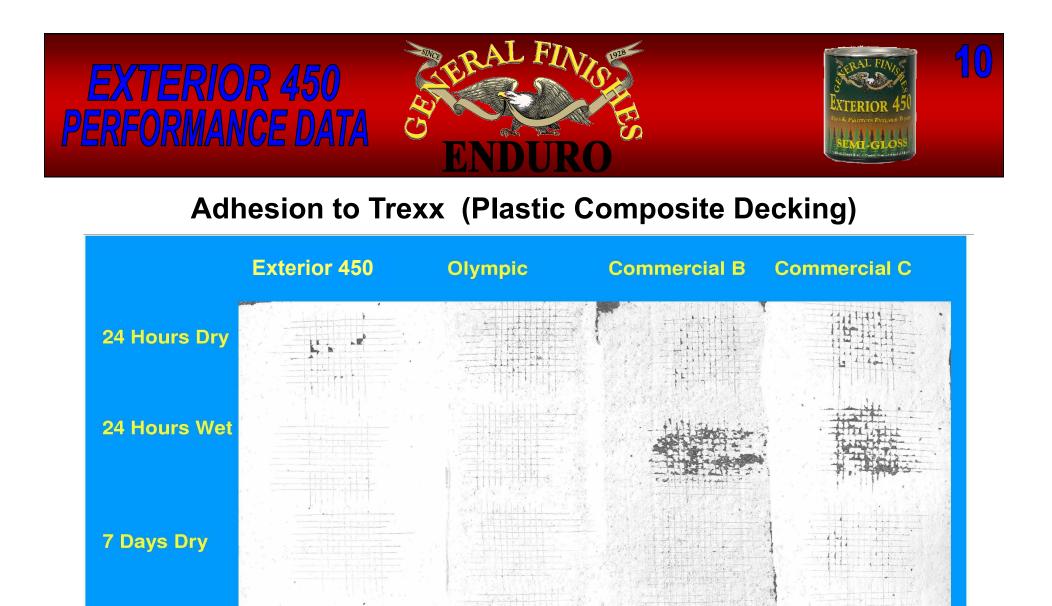
			Pres	sure T	reated F	Pine				
	51S-2	25A	51S-2	25B	51S-2	6C	51S-2	26D		
=	WB-417′	7 Solid	WB-417	7 Solid	WB-417	7 Solid	WB-4177 Solid 2 coats			
-	1 co	oat	1 co	at	2 co	ats				
	Self-Primed	Primed	Self-Primed	Primed	Self-Primed	Primed	Self-Primed	Primed		
1	51s-19 Dusk	51s-19 Dusk	51s-19 Dusk	51s-19 Dusk						
-	Initial		Initia	<u>al</u>	Initia	<u>al</u>	Initial			
Gloss @ 60	8	10	7	9	10	12	11	11		
Gloss @ 85	14	18			22	25	23	25		
Adhesion	5A	5A	5A	5A	5a	5a	5A	5A		
	1.5 y	rs.	1.5 yı	°S.	1.5 yı	۶.	1.5 yı	·s.		
Gloss @ 60	4	7	3	4	5	4	4	5		
Gloss @ 85	13	16			17	15	13	17		
Adhesion	5A	5A	5A	5A	5A	5A	5A	5A		
			4.5 yı	`S.	4.5 yrs.					
Gloss @ 60			4	6	5	6				
Gloss @ 85	Board	Lost	14	20	20	23	Board Lost			
Adhesion			5A	5A	5A	5A				



Exterior 450 Deck Stain, Color Retention, QUV Exposure







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7 Days Wet



WDMA (Window & Door Manufacturers Association) Specs

Boiling Water Adhesic	on PASS
Water Soak Adhesior	n PASS
 Dry Adhesion 	PASS
 Block Resistance 	PASS
Muriatic Acid Resistant	nce PASS
 Mortar Resistance 	PASS



FOR YOU PROTECTION

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