

**SYNTRAN® 6130
WOOD FLOOR BASE COAT
SANDING SEALER**

TEST SAMPLES	Syntran 6130 Base Coat Formulation F-43-067-01	Minwax Polyurethane Floor Base Coat
60° SPECULAR GLOSS ASTM D523	88	86
DRY TIME ASTM D 1640 (Hours)	1:50	1:43
ADHESION ASTM D3359	Excellent	Very Good
<i>CRAZING ON GLASS</i>	None	None
SANDING PROPERTIES (100 grit sanding disk) MFMA Test Methods	When sanding, coating does not gum, roll or pull	N/A
FREEZE THAW RESISTANCE	Pass 3 cycles	Fails
SOLIDS ASTM D1644	30%	32%
pH ASTM E70-77	8.6	4.2
TANNIN REACTION (Discoloration)	No tannin reaction with 1 application of base coat	None

SYNTRAN® 6130
WOOD FLOOR BASE COAT
Compatibility Test

TOP COAT TEST SAMPLES	Base Coat Syntran 6130 in Formulation F-43-067-01	Minwax Polyurethane Floor Base Coat
F-43-05-01 SYNTRAN 6110 & 6120	Excellent	Excellent
F-43-068-01 SYNTRAN 6130	Excellent	Excellent
Minwax Polyurethane for Floors	Excellent	Excellent
Minwax Polycrylic	Excellent	Excellent
Olympic Polyurethane	Excellent	Excellent

**SYNTRAN® 6130 ACRYLIC POLYMER
WOOD COATING FORMULATION
WOOD FURNITURE & TRIM TOPCOAT**

TEST SAMPLES	Syntran 6130 in Formulation F-43-069-01	Minwax Water-Based Polycrylic
60° SPECULAR GLOSS ASTM D523	88	84
DRY TIME ASTM D 1640	1 hour and 23 minutes	Over 2 hours
ADHESION ASTM D3359	Excellent	Very Good
TABER ABRASION ASTM D 4060	.09% loss of material	.12% loss of material
PENCIL HARDNESS	4H	H
SWARD ROCKER HARDNESS ASTM D2134-93	31	18
BLACK HEEL MARK RESISTANCE ASTM D3714	Excellent	Excellent
CRAZING	None	None
SANDING PROPERTIES 100 grit sandpaper	When sanding ,coating does not gum,roll or pull	When sanding ,coating does not gum,roll or pull
SLIP INDEX ASTM D2047	.5	.6
FREEZE THAW RESISTANCE ⁰	Pass 3 cycles	Pass 3 cycles
SOLIDS ASTM D1644	30%	30%
pH ASTM E70	8.7	8.3
VISCOSITY RVF @ 22°C	180 cps	130 cps

SYNTRAN® 6130 ACRYLIC POLYMER
Stain resistance
24 hour test

TEST SAMPLES	Syntran 6130 in Formulation F-43-069-01	Minwax Water-Based Polycrylic
DISTILLED WATER	Excellent	Excellent
VEGATABLE OIL	Excellent	Excellent
SPIC & SPAN SOLUTION	Excellent	Excellent

Stain resistance
1 hour test

TEST SAMPLES	Syntran 6130 in Formulation F-43-069-01	Minwax Water-Based Polycrylic
ALCOHOL (50%)	Very Good	Very Good
WINE	Excellent	Excellent
COLA	Excellent	Excellent

**SYNTRAN® 6130
WOOD FLOOR TOPCOAT
PERFORMANCE TESTING**

TEST SAMPLES	Syntran 6130 in Formulation F-43-068-02	Minwax Water-Based Polyurethane for floors
60° SPECULAR GLOSS ASTM D523	90	78
DRY TIME ASTM D 1640	1:33	0:44
ADHESION ASTM D3359	Excellent	Excellent
TABER ABRASION ASTM D 4060	2.02% Average Weight Loss	2.43% Average Weight Loss
PENCIL HARDNESS	5H	5H
SWARD ROCKER HARDNESS ASTM D2134-93	30	14
BLACK HEEL MARK RESISTANCE ASTM D3714	Excellent	Excellent
CRAZING	None	None
SANDING PROPERTIES 100 grit sandpaper	When sanding, coating does not gum, roll or pull	When sanding, coating does not gum, roll or pull
SLIP INDEX ASTM D2047	.5	.5
FREEZE THAW RESISTANCE ⁰	Pass 3 cycles	Pass 3 cycles
SOLIDS ASTM D1644	29%	30%
pH ASTM E70	8.6	7.9
VISCOSITY LVF @ 22°C	16 cps	65 cps

SYNTRAN® 6130
Wood Floor Topcoat
Chemical resistance
24 hour test

TEST SAMPLES	Syntran 6130 in Formulation F-43-068-02	Minwax Water-Based Polycrylic
DISTILLED WATER	Excellent	Excellent
VEGATABLE OIL	Very Good	Fair
SPIC & SPAN SOLUTION	Very Good	Excellent

Stain resistance
1 hour test

TEST SAMPLES	Syntran 6130 in Formulation F-43-068-02	Minwax Water-Based Polyurethane for Floors
COFFEE	Excellent	Very Good
WINE	Very Good	Excellent
ALCOHOL (50%)	Good	Very Good
COLA	Excellent	Excellent

SYNTRAN® 6130 Taber Abrasion Test Results

F-43-068-02 BASED ON **SYNTRAN 6130** AND MINWAX WATER BASED POLYURETHANE FOR FLOORS

Weigh tiles uncoated
 APPLY 8 COATS 1 ML EACH COAT
 Place tiles in oven overnight
 Allow to dry in desiccant chamber 24 hours
 Place at room conditions overnight
 Weight tiles, run test, X cycles with CS-10 wheels
 Weigh tiles after tested and after wiping with antistatic cloth
 Determine weight loss in mg and Taber Wear factor

Note: Each sample ran for 2000 cycles utilizing the 250 g cw

	Interpolymer Formulation F-43-068-02		Minwax Topcoat	
	Sample A		Sample B	
Test Tile No.	1	2	3	4
Weight of uncoated tile	55.93	56.24	55.97	56.12
Weight of tile with sample coating	57.39	56.99	57.52	57.49
Weight of coated tile after testing	57.37	56.97	57.49	57.45
g Lost	0.02	0.02	0.03	0.04
Wear Index	0.01	0.01	0.02	0.02
%	1.37	2.67	1.94	2.92
% Average weight lost	2.02		2.43	

Conclusion: F-43-068-02 has better taber abrasion wear factor.