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April 30, 2021

ZAR® OIL BASE WOOD STAIN TINTING FORMULATION

MATCHING: ZAR® OIL BASE WOOD STAIN TINTING FORMULATION SYSTEM: **SHERWIN WILLIAMS BLEND-A-COLOR** USING **32** INCREMENTS PER FLUID OUNCE

EXPLANATION OF NOTATION: The amount of colorant to be added is listed in two columns under the container size. The first column under OZ. lists the number(s) of full fluid ounces of colorant to add. If a zero appears in this column, no full fluid ounces are added, only fractions of a fluid ounce. The second column under the heading 32's, lists the number(s) of fractions, 32nds, of a fluid ounce to add. If a zero appears in this column, no fractions are added, only full fluid ounces. If you have any questions on these formulas please contact UGL at 1- 800-845-5227 before starting to tint.

IMPORTANT: Due to the differences between the pigment used in the ready- mixed colors and those used in tinting systems, minor variations are possible. For this reason, store-tinted colors should NOT be used to complete a job started with ready-mixed colors or vice versa.

UGL can only control colors of their own manufacture. Therefore, we CANNOT guarantee that the formulas as indicated will be exact matches. Colors as listed represent our matches to color chips. It is advisable to PRE-DETERMINE the formulas, as being used, will provide the proper color match. UGL cannot assume any responsibility for any changes in shade that may occur.

COLORANTS

- B1** – Black
- L1** – Blue
- G2** – New Green
- R3** – Magenta
- N1** – Raw Umber
- R4** – New Red
- R2** – Maroon
- Y3** – Deep Gold
- W1** – White
- Y1** - Yellow

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109 COLONIAL PINE

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	8	B1 - Black	1	0			
R2 - Maroon	0	5	R2 - Maroon	0	20			
Y3 – Deep Gold	0	31	Y3 – Deep Gold	3	28			

110 SALEM MAPLE

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2- Maroon	0	6	R2 - Maroon	0	24			
N1 – Raw Umber	1	0	N1 – Raw Umber	4	0			
Y3 – Deep Gold	0	30	Y3 – Deep Gold	3	24			

111 WALNUT

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 - Maroon	0	2.5	R2 - Maroon	0	10			
N1 – Raw Umber	1	3	N1 – Raw Umber	4	12			
W1 - White	0	14	W1 - White	1	24			
Y3 – Deep Gold	1	6	Y3 – Deep Gold	4	24			

113 FRUITWOOD

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 - Maroon	0	2.5	R2 - Maroon	0	10			
N1 – Raw Umber	0	28	N1 – Raw Umber	3	16			
W1 - White	0	3	W1 - White	0	12			
Y3 – Deep Gold	1	8	Y3 – Deep Gold	5	0			

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114 PROVINCIAL

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 - Maroon	0	4	R2 - Maroon	0	16			
N1 – Raw Umber	1	0	N1 – Raw Umber	4	0			
Y3 – Deep Gold	0	24	Y3 – Deep Gold	3	0			

115 AGED BOURBON

145 TINT BASE

(formerly Modern Walnut)

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	28	B1 - Black	3	16			
R2 - Maroon	0	14	R2 - Maroon	1	24			
Y3 – Deep Gold	1	16	Y3 – Deep Gold	6	0			

116 CHERRY

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 - Maroon	0	14	R2 - Maroon	1	24			
N1 – Raw Umber	0	26	N1 – Raw Umber	3	8			
Y3 – Deep Gold	1	8	Y3 – Deep Gold	6	18			

117 HONEY MAPLE

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 - Maroon	0	0.5	R2 - Maroon	0	2			
N1 – Raw Umber	0	2	N1 – Raw Umber	0	8			
Y3 – Deep Gold	0	1	Y3 – Deep Gold	0	4			

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118 DARK MAHOGANY

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	31	B1 - Black	3	28			
R2 - Maroon	0	27	R2 - Maroon	3	12			
Y3 – Deep Gold	0	10	Y3 – Deep Gold	1	8			

119 MOCHA

145 TINT BASE

(formerly Mocha, Danish Walnut)

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	1	8	B1 - Black	5	0			
R2 - Maroon	0	9	R2 - Maroon	1	4			
Y3 – Deep Gold	0	14	Y3 – Deep Gold	1	24			

120 Premium Teak

145 TINT BASE

(formerly Teak Natural)

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	11	B1 - Black	1	12			
R2 - Maroon	0	10	R2 - Maroon	1	8			
Y3 – Deep Gold	1	22	Y3 – Deep Gold	6	24			

121 BABY GRAND

145 TINT BASE

(formerly Black Onyx)

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	1	16	B1 - Black	6	0			
Y3 – Deep Gold	0	9	Y3 – Deep Gold	1	4			
W1 - White	0	9	W1 - White	1	4			

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122 MEDITERRANEAN

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	2	17.75	B1 - Black	10	6.75			
R2 - Maroon	0	14.5	R2 - Maroon	1	26.25			
Y3 – Deep Gold	0	21.125	Y3 – Deep Gold	2	20.75			

123 DARK CHOCOLATE TRUFFLE

(formerly Moorish Teak)

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	1	10	B1 - Black	5	8			
R2 - Maroon	0	16	R2 - Maroon	2	0			
Y3 – Deep Gold	0	10	Y3 – Deep Gold	1	8			

124 ROSEWOOD

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	28	B1 - Black	3	16			
R2 - Maroon	0	16	R2 - Maroon	2	0			

125 BLACK WALNUT

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	1	2	B1 - Black	4	8			
R2 - Maroon	0	7	R2 - Maroon	0	28			
Y3 – Deep Gold	0	20	Y3 – Deep Gold	2	16			

126 CHESTNUT

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 - Maroon	0	6	R2 - Maroon	0	24			
N1 – Raw Umber	0	31	N1 – Raw Umber	3	28			
Y3 – Deep Gold	1	8	Y3 – Deep Gold	5	0			
B1-Black	0	8.25	B1- Black	1	1			

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127 GOLDEN SUNSET

145 TINT BASE

(formerly Golden Oak)

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 - Maroon	0	0.5	R2 - Maroon	0	2			
N1 – Raw Umber	0	9	N1 – Raw Umber	1	4			
W1 - White	0	3	W1 - White	0	12			
Y3 – Deep Gold	0	12	Y3 – Deep Gold	1	16			

128 MINK

145 TINT BASE

(formerly Early American)

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	17	B1 - Black	2	4			
R2 - Maroon	0	16	R2 - Maroon	2	0			
Y3 – Deep Gold	1	18	Y3 – Deep Gold	6	8			

129 VINTAGE MODERN

145 TINT BASE

(formerly Amber Varnish, Aged Varnish)

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 - Maroon	0	5	R2 - Maroon	0	20			
N1 – Raw Umber	1	0	N1 – Raw Umber	4	0			
Y3 – Deep Gold	1	2	Y3 – Deep Gold	4	8			

130 DRIFTWOOD

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	2.5	B1 - Black	0	10			
R2 - Maroon	0	0.5	R2 - Maroon	0	2			
W1 - White	1	0	W1 - White	4	0			
Y3 – Deep Gold	0	4	Y3 – Deep Gold	0	16			

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135 BLACK CAVIAR
(formerly Charcoal)

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	1	20	B1 - Black	6	16			
R2 - Maroon	0	6	R2 - Maroon	0	24			

136 ENGLISH WALNUT

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	24	B1 - Black	3	0			
R2 - Maroon	0	6	R2 - Maroon	0	24			
Y3 – Deep Gold	0	30	Y3 – Deep Gold	3	24			

137 WHITE OAK

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 - Maroon	0	1	R2 - Maroon	0	4			
N1 – Raw Umber	0	20	N1 – Raw Umber	2	16			
W1 - White	0	15	W1 - White	1	28			
Y3 – Deep Gold	1	10	Y3 – Deep Gold	5	8			

138 SPANISH OAK

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	7	B1 - Black	0	28			
R2 - Maroon	0	4	R2 - Maroon	0	16			
W1 - White	0	8	W1 - White	1	0			
Y3 – Deep Gold	0	30	Y3 – Deep Gold	3	24			

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139 BEACH HOUSE

145 TINT BASE

(formerly Country White, Coastal Boards)

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
R2 – New Red	0	0.5	R2 – New Red	0	2			
W1 - White	2	0	W1 - White	8	0			
Y3 – Deep Gold	0	1	Y3 – Deep Gold	0	4			

140 MERLOT

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	18	B1 - Black	2	8			
R2 - Maroon	1	12	R2 - Maroon	5	16			
W1 - White	0	16	W1 - White	2	0			
Y3 – Deep Gold	0	16	Y3 – Deep Gold	2	0			

170 SILK GRAY

145 TINT BASE

(formerly Silk Grey)

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	9.25	B1 - Black	1	5			
R2 - Maroon	0	0.5	R2 - Maroon	0	2			
W1 - White	1	25	W1 - White	7	4			
Y3 – Deep Gold	0	3	Y3 – Deep Gold	0	12			

171 MALIBU GRAY

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	1	14	B1 - Black	5	24			
Y3 – Deep Gold	0	8	Y3 – Deep Gold	1	0			
W1 - White	0	1.5	W1 - White	0	6			
R2 – Maroon	0	1.5	R2 – Maroon	0	6			

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**503 OILED LEATHER
(formerly Slate Gray)**

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1-Black	0	21	B1-Black	2	20			
R2-Maroon	0	1	R2-Maroon	0	4			
Y3-Deep gold	0	2.5	Y3-Deep gold	0	10			
W1-White	1	5	W1-White	4	20			

504 GRAY CASHMERE

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	4	B1 - Black	0	16			
W1 - White	0	5.5	W1 - White	0	22			
Y3 – Deep Gold	0	0.4	Y3 – Deep Gold	0	1.6			

508 CHAMPAGNE

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
Y3 – Deep Gold	0	0.25	Y3 – Deep Gold	0	1			
W1 - White	0	2	W1 - White	0	8			

509 BLUE MOON

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	5	B1 - Black	0	20			
Y3 – Deep Gold	0	2	Y3 – Deep Gold	0	8			
W1 - White	0	4	W1 - White	0	16			
L1 - Blue	0	5	W1 - White	0	20			

517 MOROCCAN RED

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	18	B1 - Black	2	8			
R2 - Maroon	1	9	R2 - Maroon	5	4			

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518 EXOTIC REDWOOD

145 TINT BASE

Quart Formula			Gallon Formula			Five Gallon Formula		
Colorant	OZS.	32s	Colorant	OZS.	32s	Colorant	OZS.	32s
B1 - Black	0	31	B1 - Black	3	28			
R2 - Maroon	1	10	R2 - Maroon	5	8			

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