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REVISED ON DEC 7 2023

## ZAR® OIL BASE WOOD STAIN TINTING FORMULATION

MATCHING: ZAR® OIL BASE WOOD STAIN TINTING FORMULATION  
SYSTEM: **PPG FUTURITY** USING 48 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 48, lists the number(s) of fractions, 48ths, 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

- B** - Lamp Black
- C** - Yellow Oxide
- D** - Phthalo Green
- E** - Phthalo Blue
- F** - Red Iron Oxide
- G** – Durable Yellow
- L** - Raw Umber
- M** – Durable Red
- W** – White
- V**-Quindo Violet



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### 109 COLONIAL PINE

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	0	14	0	B - Lamp Black	1	8	0			
C - Yellow Oxide	0	40	0	C - Yellow Oxide	3	16	0			
F- Red Iron Oxide	0	6	4	F- Red Iron Oxide	0	26	0			

### 508 CHAMPAIGNE

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
W -White	0	11	0	W -White	0	44	0			
C - Yellow Oxide	0	6	0	C - Yellow Oxide	0	24	0			
L - Raw Umber	0	1	0	L - Raw Umber	0	4	0			

### 110 SALEM MAPLE

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	0	34	0	C - Yellow Oxide	2	40	0			
F- Red Iron Oxide	0	8	0	F- Red Iron Oxide	0	32	0			
L - Raw Umber	1	0	0	L - Raw Umber	4	0	0			

### 111 WALNUT

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	1	0	0	C - Yellow Oxide	4	0	0			
F- Red Iron Oxide	0	4	0	F- Red Iron Oxide	0	16	0			
L - Raw Umber	1	20	0	L - Raw Umber	5	32	0			

### 113 FRUITWOOD

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	1	12	0	C - Yellow Oxide	5	0	0			
F- Red Iron Oxide	0	4	0	F- Red Iron Oxide	0	16	0			
L - Raw Umber	1	0	0	L - Raw Umber	4	0	0			
W -White	0	6	0	W -White	0	24	0			

### 114 PROVINCIAL

### 145 TINT BASE

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Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	0	40	2	C - Yellow Oxide	3	17	1			
F- Red Iron Oxide	0	10	0	F- Red Iron Oxide	0	40	0			
L - Raw Umber	0	44	6	L - Raw Umber	3	34	7			

### 115 AGED BOURBON

### 145 TINT BASE

(formerly Modern Walnut)

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	0	46	0	B - Lamp Black	3	40	0			
C - Yellow Oxide	1	16	0	C - Yellow Oxide	5	16	0			
F- Red Iron Oxide	0	18	4	F- Red Iron Oxide	1	26	0			

### 116 CHERRY

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	0	18	2	C - Yellow Oxide	1	25	0			
F- Red Iron Oxide	0	12	4	F- Red Iron Oxide	1	2	0			
L - Raw Umber	0	19	1	L - Raw Umber	1	28	5			

### 117 HONEY MAPLE

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	0	1	6	C - Yellow Oxide	0	6	7			
F- Red Iron Oxide	0	0	6	F- Red Iron Oxide	0	3	0			
L - Raw Umber	0	4	1	L - Raw Umber	0	16	6			
W -White	0	3	3	W -White	0	13	2			

### 118 DARK MAHOGANY

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	1	16	0	B - Lamp Black	4	24	0			
C - Yellow Oxide	0	14	0	C - Yellow Oxide	1	8	0			
F- Red Iron Oxide	1	6	0	F- Red Iron Oxide	4	24	0			

### 119 MOCHA

### 145 TINT BASE

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**(formerly Mocha, Danish Walnut)**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	1	34	0	B - Lamp Black	6	40	0			
C - Yellow Oxide	0	20	0	C - Yellow Oxide	1	32	0			
F- Red Iron Oxide	0	17	0	F- Red Iron Oxide	1	20	0			

**120 Premium Teak**

**145 TINT BASE**

**(formerly Teak Natural)**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	0	20	0	B - Lamp Black	1	32	0			
C - Yellow Oxide	1	32	0	C - Yellow Oxide	6	32	0			
F- Red Iron Oxide	0	18	0	F- Red Iron Oxide	1	24	0			

**121 BABY GRAND**

**145 TINT BASE**

**(formerly Black Onyx)**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	2	6	0	B - Lamp Black	8	24	0			
C - Yellow Oxide	0	8	0	C - Yellow Oxide	0	32	0			
W -White	0	12	0	W -White	1	0	0			

**122 MEDITERRANEAN**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	1	30	0	B - Lamp Black	6	24	0			
C - Yellow Oxide	0	24	0	C - Yellow Oxide	2	0	0			
F- Red Iron Oxide	0	14	0	F- Red Iron Oxide	1	8	0			

**123 DARK CHOCOLATE TRUFFLE**

**145 TINT BASE**

**(formerly Moorish Teak)**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	1	46	0	B - Lamp Black	7	40	0			
C - Yellow Oxide	0	7	0	C - Yellow Oxide	0	28	0			

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F- Red Iron Oxide	0	33	0	F- Red Iron Oxide	2	36	0	
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**124 ROSEWOOD**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	1	20	0	B - Lamp Black	5	32	0			
F- Red Iron Oxide	0	45	0	F- Red Iron Oxide	3	36	0			

**125 BLACK WALNUT**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	1	28	0	B - Lamp Black	6	16	0			
C - Yellow Oxide	0	26	0	C - Yellow Oxide	2	8	0			
F- Red Iron Oxide	0	14	0	F- Red Iron Oxide	1	8	0			

**126 CHESTNUT**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	0	46	0	C - Yellow Oxide	3	40	0			
F- Red Iron Oxide	0	2	0	F- Red Iron Oxide	0	8	0			
L - Raw Umber	0	26	0	L - Raw Umber	2	8	0			

**127 GOLDEN SUNSET**

**145 TINT BASE**

**(formerly Golden Oak)**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	1	12	0	C - Yellow Oxide	5	0	0			
F- Red Iron Oxide	0	2	0	F- Red Iron Oxide	0	8	0			
L - Raw Umber	0	15	0	L - Raw Umber	1	12	0			
W –White	0	20	0	W –White	1	32	0			

**128 MINK**

**145 TINT BASE**

**(formerly Early American)**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	0	22	0	C - Yellow Oxide	1	40	0			
F- Red Iron Oxide	1	20	0	F- Red Iron Oxide	5	32	0			
L - Raw Umber	0	24	0	L - Raw Umber	2	0	0			

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### 129 VINTAGE MODERN

(formerly Amber Varnish, Aged Varnish)

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	0	45	0	C - Yellow Oxide	3	36	0			
F- Red Iron Oxide	0	5	4	F- Red Iron Oxide	0	22	0			
L - Raw Umber	0	26	0	L - Raw Umber	2	8	0			

### 130 DRIFTWOOD

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	0	4	4	B - Lamp Black	0	18	0			
C - Yellow Oxide	0	4	0	C - Yellow Oxide	0	16	0			
F- Red Iron Oxide	0	0	4	F- Red Iron Oxide	0	2	0			
W -White	1	20	0	W -White	5	32	0			

### 135 BLACK CAVIAR

(formerly Charcoal)

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	2	12	0	B - Lamp Black	9	0	0			
F- Red Iron Oxide	0	8	0	F- Red Iron Oxide	0	32	0			

### 136 ENGLISH WALNUT

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	1	0	0	B - Lamp Black	4	0	0			
C - Yellow Oxide	0	44	0	C - Yellow Oxide	3	32	0			
F- Red Iron Oxide	0	9	0	F- Red Iron Oxide	0	36	0			

### 137 WHITE OAK

### 145 TINT BASE

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Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	1	20	0	C - Yellow Oxide	5	32	0			
F- Red Iron Oxide	0	2	0	F- Red Iron Oxide	0	8	0			
L - Raw Umber	0	22	0	L - Raw Umber	1	40	0			
W -White	0	24	0	W -White	2	0	0			

**138 SPANISH OAK**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	0	14	1	C - Yellow Oxide	1	8	3			
L - Raw Umber	0	21	0	L - Raw Umber	1	36	1			
F- Red Iron Oxide	0	1	5	F- Red Iron Oxide	0	6	4			

**139 BEACH HOUSE**

**145 TINT BASE**

**(formerly Country White, Coastal Boards)**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
C - Yellow Oxide	0	1	0	C - Yellow Oxide	0	4	0			
M - Durable Red	0	0	4	M - Durable Red	0	2	0			
W -White	2	30	0	W -White	10	24	0			

**140 MERLOT**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	0	30	0	B - Lamp Black	2	24	0			
F- Red Iron Oxide	1	0	0	F- Red Iron Oxide	4	0	0			
V-Quinto Violet	0	25	0	V-Quinto Violet	2	4	0			
W -White	0	36	0	W -White	3	0	0			

**170 SILK GRAY**

**145 TINT BASE**

**(formerly Silk Grey)**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	0	19	5	B - Lamp Black	1	30	4			
W -White	1	21	3	W -White	5	37	6			

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**171 MALIBU GRAY**  
**(formerly Slate Gray)**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	0	28	0	B - Lamp Black	2	16	0			
C - Yellow Oxide	0	3	4	C - Yellow Oxide	0	14	0			
F- Red Iron Oxide	0	2	4	F- Red Iron Oxide	0	10	0			
W -White	0	1	12	W -White	5	0	0			

**503 OILED LEATHER**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	1	16	0	B - Lamp Black	5	16	0			
C - Yellow Oxide	0	10	0	C - Yellow Oxide	0	40	0			
L - Raw Umber	1	20	0	L - Raw Umber	5	32	0			
W -White	0	18	0	W -White	1	24	0			

**504 GRAY CASHMERE**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	0	8	0	B - Lamp Black	0	24	0			
C - Yellow Oxide	0	2	0	C - Yellow Oxide	0	8	0			
W -White	0	11	0	W -White	0	44	0			

**509 BLUE MOON**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
E- Phthalo Blue	0	39	0	E- Phthalo Blue	3	12	0			
L- Raw Umber	1	16	0	L- Raw Umber	5	16	0			
W -White	0	13	0	W -White	1	4	0			

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**517 MOROCCAN RED**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula		
Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B- Lamp Black	0	21	0	B- Lamp Black	1	36	0			
F- Red Iron Oxide	0	34	0	F- Red Iron Oxide	2	40	0			
V- Quinto Violet	0	19	0	V- Quinto Violet	1	28	0			

**518 EXOTIC REDWOOD**

**145TINT BASE**

Colorant	OZS.	48s	1/8	Colorant	OZS.	48s	1/8	Colorant	OZS.	48s
B - Lamp Black	0	42	0	B - Lamp Black	3	24	0			
F- Red Iron Oxide	2	0	0	F- Red Iron Oxide	8	0	0			
V-Quinto Violet	0	1	0	V-Quinto Violet	0	4	0			