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REVISED MAY 21, 2021

## ZAR® OIL BASE WOOD STAIN TINTING FORMULATION

MATCHING: ZAR® OIL BASE WOOD STAIN TINTING FORMULATION  
SYSTEM: **Moore-O-Matic** 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, lists the number(s) of fractions, 32s, 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

**BB** - Bright Blue  
**BK** - Black  
**BR** - Brown  
**GY** - Gray  
**MA** - Magenta  
**OG** - Orange  
**OY** – Oxide Yellow  
**RD** – Red  
**RX** – Red Oxide  
**TG** – Phthalo Green  
**WH** - White  
**YW** - Yellow



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### 109 COLONIAL PINE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	1	5	BK - Black	0	6	3				
RX - Red Oxide	0	0	1	RX - Red Oxide	0	0	5				
OY - Oxide Yellow	0	18	5	OY - Oxide Yellow	2	10	5				

### 145 TINT BASE

### 110 SALEM MAPLE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
GY-Gray	1	2	1	GY-Gray	4	8	5				
RX - Red Oxide	0	3	2	RX - Red Oxide	0	13	2				
OY - Oxide Yellow	0	6	0	OY - Oxide Yellow	0	23	5				

### 145 TINT BASE

### 111 WALNUT

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	4	5	BK - Black	0	18	4				
RX - Red Oxide	0	2	7	RX - Red Oxide	0	11	5				
OY - Oxide Yellow	0	21	2	OY - Oxide Yellow	2	21	3				

### 145 TINT BASE

### 113 FRUITWOOD

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	6	1	BK - Black	0	24	6				
RX - Red Oxide	0	6	0	RX - Red Oxide	0	24	4				
OY - Oxide Yellow	0	18	0	OY - Oxide Yellow	2	8	0				

### 145 TINT BASE

### 114 PROVINCIAL

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	3	6	BK - Black	0	15	1				
RX - Red Oxide	0	6	0	RX - Red Oxide	0	23	6				
OY - Oxide Yellow	0	26	2	OY - Oxide Yellow	3	9	2				

### 145 TINT BASE

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### 115 AGED BOURBON

### 145 TINT BASE

(formerly Modern Walnut)

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	17	0	BK - Black	2	4	2				
RX – Red Oxide	0	7	7	RX – Red Oxide	0	31	4				
OY – Oxide Yellow	1	6	0	OY – Oxide Yellow	4	24	2				

### 116 CHERRY

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	3	6	BK - Black	0	15	0				
RX – Red Oxide	0	9	2	RX – Red Oxide	1	5	0				
OY – Oxide Yellow	0	21	6	OY – Oxide Yellow	2	23	0				

### 117 HONEY MAPLE

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BR-Brown	0	2	3	BR-Brown	0	9	4				
OY- oxide yellow	0	0	6	OY- oxide yellow	0	3	0				

### 118 DARK MAHOGANY

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	29	4	BK - Black	3	23	7				
RX – Red Oxide	1	1	4	RX – Red Oxide	4	6	0				
OY – Oxide Yellow	0	6	1	OY – Oxide Yellow	0	24	4				
RD- Red Toner	0	3	0	Rd- Red Toner	0	11	6				



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## 119 MOCHA

## 145 TINT BASE

**(formerly Mocha, Danish Walnut)**

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	1	1	1	BK - Black	4	4	5				
RX - Red Oxide	0	10	2	RX - Red Oxide	1	8	7				
OY - Oxide Yellow	0	30	2	OY - Oxide Yellow	3	25	2				

## 120 PREMIUM TEAK

## 145 TINT BASE

**(formerly Teak Natural)**

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	12	0	BK - Black	1	16	0				
RX - Red Oxide	0	12	0	RX - Red Oxide	1	16	0				
OY - Oxide Yellow	1	9	2	OY - Oxide Yellow	5	5	2				

## 121 BABY GRAND

## 145 TINT BASE

**(formerly Black Onyx)**

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	1	16	0	BK - Black	6	0	0				

## 122 MEDITERRANEAN

## 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	1	17	4	BK - Black	6	6	2				
RX - Red Oxide	0	7	0	RX - Red Oxide	0	27	6				
OY - Oxide Yellow	0	12	7	OY - Oxide Yellow	1	19	3				

## 123 DARK CHOCOLATE TRUFFLE

## 145 TINT BASE

**(formerly Moorish Teak)**

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	2	20	0	BK - Black	10	16	2				
RX - Red Oxide	0	20	0	RX - Red Oxide	2	16	0				

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### 124 ROSEWOOD

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	20	7	BK - Black	2	19	5				
RX - Red Oxide	0	19	2	RX - Red Oxide	2	13	2				
RD- Red Toner	0	3	0	RD- Red Toner	0	11	7				

### 125 BLACK WALNUT

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	29	5	BK - Black	3	22	4				
RX - Red Oxide	0	6	0	RX - Red Oxide	0	23	5				
OY - Oxide Yellow	0	8	0	OY - Oxide Yellow	1	0	2				

### 126 CHESTINUT

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	7	3	BK - Black	0	29	3				
RX - Red Oxide	0	5	1	RX - Red Oxide	0	20	4				
OY - Oxide Yellow	1	10	5	OY - Oxide Yellow	5	10	5				

### 127 GOLDEN SUNSET

### 145 TINT BASE

(formerly Golden Oak)

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	2	4	BK - Black	0	10	0				
RX - Red Oxide	0	2	0	RX - Red Oxide	0	7	0				
WH - White	0	16	0	WH - White	1	0	2				
OY - Oxide Yellow	1	0	0	OY - Oxide Yellow	3	13	2				

### 128 MINK

### 145 TINT BASE

(formerly Early American)

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8

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BK - Black	0	17	1	BK - Black	2	4	5	
RX – Red Oxide	0	14	2	RX – Red Oxide	1	25	0	
OY – Oxide Yellow	1	5	5	OY – Oxide Yellow	4	22	5	

### 129 VINTAGE MODERN

### 145 TINT BASES

(formerly Amber Varnish, Aged Varnish)

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	5	0	BK - Black	0	20	0				
RX – Red Oxide	0	8	2	RX – Red Oxide	1	0	6				
OY – Oxide Yellow	1	28	0	OY – Oxide Yellow	7	16	0				

### 130 DRIFTWOOD

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	3	2	BK - Black	0	13	1				
RX – Red Oxide	0	0	4	RX – Red Oxide	0	2	1				
OY – Oxide Yellow	0	14	6	OY – Oxide Yellow	1	27	2				

### 135 BLACK CAVIAR

### 145 TINT BASE

(formerly Charcoal)

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	3	20	6	BK - Black	14	18	5				
RX – Red Oxide	0	8	2	RX – Red Oxide	1	1	1				

### 137 WHITE OAK

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	1	7	BK - Black	0	7	6				
RX – Red Oxide	0	0	3	RX – Red Oxide	0	1	2				
OY – Oxide Yellow	0	14	7	OY – Oxide Yellow	1	27	0				

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### 138 SPANISH OAK

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	5	4	BK - Black	0	21	7				
RX - Red Oxide	0	3	2	RX - Red Oxide	0	12	6				
OY - Oxide Yellow	1	11	5	OY - Oxide Yellow	5	14	3				

### 139 BEACH HOUSE

### 145 TINT BASES

(formerly Country White, Coastal Boards)

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
WH - White	2	22	5	WH - White	10	26	5				

### 140 MERLOT

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	20	1	BK - Black	2	16	6				
RX - Red Oxide	0	16	3	RX - Red Oxide	2	1	4				
MA-Magenta	1	1	1	MA-Magenta	4	4	5				

### 170 SILK GRAY

### 145 TINT BASE

(formerly Silk Grey)

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	9	0	BK - Black	1	4	2				
RX - Red Oxide	0	0	3	RX - Red Oxide	0	1	6				
WH - White	1	24	7	WH - White	3	3	4				
OY - Oxide Yellow	0	3	0	OY - Oxide Yellow	0	12	0				

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

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	21	4	BK - Black	2	22	0				
RX – Red Oxide	0	1	0	RX – Red Oxide	0	4	2				
WH - White	0	30	1	WH - White	3	25	0				

**503 OILED LEATHER**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	1	6	0	BK - Black	4	24	0				
OY – Oxide Yellow	0	7	0	OY – Oxide Yellow	0	28	0				
WH-White	0	1	4	WH-White	0	6	0				

**504 GRAY CASHMERE**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	5	0	BK - Black	0	20	0				
WH-White	0	6	0	WH-White	0	4	0				

**508 CHAMPAGNE**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
OY – Oxide Yellow	0	0	2	OY – Oxide Yellow	0	1	0				
WH-White	0	1	4	WH-White	0	6	0				

**509 BLUE MOON**

**145 TINT BASE**

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	12	4	BK - Black	1	18	0				

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OY – Oxide Yellow	0	5	0	OY – Oxide Yellow	0	20	0	
WH-White	0	5	0	WH-White	0	20	0	
BB-Bright Blue	0	9	0	BB-Bright Blue	1	4	0	

### 517 MOROCCAN RED

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	23	0	BK - Black	2	28	0				
RX-Red Oxide	1	8	0	Red Oxide	5	28	0				

### 518 EXOTIC REDWOOD

### 145 TINT BASE

Quart Formula				Gallon Formula				Five Gallon Formula			
Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8	Colorant	OZS.	32s	1/8
BK - Black	0	5	0	BK - Black	0	2	0				
BR-Brown	1	21	0	BR-Brown	6	20	0				
RD-Red	0	10	0	RD-Red	1	8	0				
MA-Magenta	0	9	0	MA-Magenta	1	4	0				