

May 2004

ZAR OIL BASED WOOD STAIN TINTING FORMULATION

MATCHING: MINWAX OIL BASED WOOD STAIN COLORS

SYSTEM: VALSPAR 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

- AXN – Exterior Yellow
- B - Lamp Black
- C - Yellow Oxide
- D – Thalo Green
- E – Thalo Blue
- F – Red Iron Oxide
- GX – Perma – Cal Orange
- I – Brown Iron Oxide
- KX – Titanium Dioxide
- L – Raw Umber
- S – Exterior red

| | | | | | | ZAR TINT BASE | | |
|--------|--------|------|--------|------|--------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| B | 1 | 12 | B | 5 | 0 | | | |
| C | 1 | 14 | C | 5 | 8 | | | |
| I | 0 | 32 | I | 2 | 32 | | | |
| REMOVE | 1FL OZ | OF | TINT | BASE | BEFORE | TINTING | | |

| FRUITWOOD | | | | | | ZAR TINT BASE | | |
|-----------|------|------|--------|------|------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| B | 0 | 9 | B | 0 | 36 | | | |
| C | 0 | 16 | C | 1 | 16 | | | |
| F | 0 | 2 | F | 0 | 8 | | | |
| KX | 0 | 6 | KX | 0 | 24 | | | |
| L | 0 | 30 | L | 2 | 24 | | | |

| DARK MAHOGANY | | | | | | ZAR TINT BASE | | |
|---------------|-------|------|---------|------|-------|---------------|------|----------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| COLOR. | CAN'T | BE | MATCHED | | NEEDS | MORE | THAN | 12 FL OZ |
| OF | TINT | PER | GALLON | | | | | |

| RED MAHOGANY | | | | | | ZAR TINT BASE | | |
|--------------|-------|------|---------|--------|-------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| COLOR. | CAN'T | BE | MATCHED | WITHIN | STDS. | | | |

| SPECIAL WALNUT | | | | | | ZAR TINT BASE | | |
|----------------|------|------|--------|------|------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| B | 1 | 18 | B | 5 | 24 | | | |
| C | 0 | 27 | C | 2 | 12 | | | |
| I | 0 | 34 | I | 2 | 40 | | | |

| CHERRY | | | | | | ZAR TINT BASE | | |
|--------|------|------|--------|------|------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| B | 0 | 20 | B | 1 | 32 | | | |
| C | 0 | 10 | C | 0 | 40 | | | |
| F | 0 | 10 | F | 0 | 40 | | | |
| L | 0 | 18 | L | 1 | 24 | | | |

| PURITAN PINE | | | | | | ZAR TINT BASE | | |
|--------------|------|------|--------|------|------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| B | 0 | 4 | B | 0 | 16 | | | |
| C | 0 | 30 | C | 2 | 24 | | | |
| F | 0 | 1 | F | 0 | 4 | | | |
| L | 1 | 7 | L | 4 | 28 | | | |

| DRIFTWOOD | | | | | | ZAR TINT BASE | | |
|-----------|------|------|--------|------|------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| B | 0 | 14 | B | 1 | 8 | | | |
| C | 0 | 10 | C | 0 | 40 | | | |
| I | 0 | 3 | I | 0 | 12 | | | |

| GOLDEN OAK | | | | | | ZAR TINT BASE | | |
|------------|------|------|--------|------|------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| C | 0 | 15 | C | 1 | 12 | | | |
| L | 0 | 30 | L | 2 | 24 | | | |

| EARLY AMERICAN | | | | | | ZAR TINT BASE | | |
|----------------|------|------|--------|------|------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| B | 0 | 10 | B | 0 | 40 | | | |
| C | 0 | 15 | C | 1 | 12 | | | |
| F | 0 | 3 | F | 0 | 12 | | | |
| I | 0 | 25 | I | 2 | 4 | | | |
| L | 1 | 0 | L | 4 | 0 | | | |

| RED OAK | | | | | | ZAR TINT BASE | | |
|---------|------|------|--------|------|------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| B | 1 | 24 | B | 6 | 0 | | | |
| E | 0 | 6 | E | 0 | 24 | | | |
| F | 1 | 24 | F | 6 | 0 | | | |

| GOLDEN PECAN | | | | | | ZAR TINT BASE | | |
|--------------|------|--------|--------|------|------|---------------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| C | 0 | 2+1/96 | C | 0 | 10 | | | |
| F | 0 | 1+1/96 | F | 0 | 6 | | | |
| I | 0 | 2 | I | 0 | 8 | | | |
| L | 0 | 11 | L | 0 | 44 | | | |

| PICKLED OAK | | | | | | | | |
|-------------|------|------|--------|------|------|----------|------|------|
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| C | 0 | 1 | C | 0 | 4 | | | |

| COLONIAL MAPLE | | | | | | | | |
|----------------|------|------|--------|------|------|----------|------|------|
| ZAR TINT BASE | | | | | | | | |
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| C | 0 | 15 | C | 1 | 12 | | | |
| F | 0 | 10 | F | 0 | 40 | | | |
| L | 0 | 10 | L | 0 | 40 | | | |

| IPSWICH PINE | | | | | | | | |
|---------------|------|------|--------|------|------|----------|------|------|
| ZAR TINT BASE | | | | | | | | |
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| C | 0 | 16 | C | 1 | 16 | | | |
| F | 0 | 4 | F | 0 | 16 | | | |
| L | 0 | 30 | L | 2 | 24 | | | |

| NATURAL | | | | | | | | |
|---------------|------|------|---------|------|-------|----------|------|------|
| ZAR TINT BASE | | | | | | | | |
| QUART | | | GALLON | | | 5 GALLON | | |
| COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S | COLOR. | OZS. | 48'S |
| ZAR | TINT | BASE | WITHOUT | ANY | COLOR | | | |

