**Blues**

- **G.S.P.T. Blue** U7233 Blue with a green face and slightly red flop.
- **H.S. Indo Blue** U7235 Our reddest shade blue on the face and flop. Gives a red cast to both solid and metallic colors. Appears very red and dirty when used in medium to dark solid blues.
- **Oceanic Blue** U7046 Blue with a green face and green flop.
- **Azure Blue** U7048 Blue with a very green face and a red flop.
- **L.S. Blue** U7276 Used to increase mixing accuracy in whites, silvers and pastel colors. Blue with a slightly green face and slightly red flop.
- **H.S. Red Shade Blue** U7280 Semi-opaque, red face and red flop blue. Used to tint solid, metallic, and pearl colors.
- **Red Shade Blue** U7285 Unique transparent red face and slightly green flop blue. Used to tint metallic and pearl colors. Should only be used if already in the formula.
**VIOLETS**

<table>
<thead>
<tr>
<th>Color Group</th>
<th>Purity</th>
<th>Color Direction</th>
<th>Color Direction of Flop</th>
<th>Brightness of Flop</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Carba Violet</strong> U7111</td>
<td>Very red shade blue on the face and flop. <strong>Do not use unless already in the formula.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>H.S. Violet</strong> U7139</td>
<td>Blue cast in solid and metallic colors on the face and flop. Blue and dirty compared to U7036 H.S. Magenta.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>L. S. Violet</strong> U7272</td>
<td>Used to increase mixing accuracy in whites, silvers, and pastel colors. Red shade violet.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Magentas and Maroons**

- **U.H.S. Perylene Maroon** U7034
  - Gives a blue face with a yellow flop.
  - Used in maroons and dark red metallics.

- **H.S. Magenta** U7036
  - Clean blue cast in solid and metallic colors.
  - Cleaner than U7139 H.S. Violet.

- **H.S. Blue Shade Magenta** U7037
  - Clean blue cast with a dark flop. Darker and cleaner than U7036. Primarily used in metallics.

- **H.S. Maroon** U7123
  - Darker on the face and flop than H.S. Red U7119.
  - Gives dirty dark blue redness to maroons and dark red metallics. Blue and dirty compared to U7036.

- **H.S. Golden Maroon** U7136
  - Yellow amber cast in metallic and solid colors on face and flop.
**Reds and Oranges**

- **H.S. Monastral Red** U7030  - Blue shade red on the face and flop. Used in solid reds, whites, and red metallics. Bluer than U7031 with a chalky flop in metallic colors.

- **H.S. Bright Red** U7031  - Our cleanest and yellowest basecoat red. Do not use in white or metallics.

- **Russet Red** U7106  - Excellent to tint solid colors. Use only small amounts when tinting metallic colors. Gives a chalky flop.

- **H.S. Red** U7119  - Primarily used in metallics. Yellower on the face and flop than U7123 H.S. Maroon. Good for a yellow (gold) flop in red metallics.

- **Orange** U7124  - Dirty opaque orange for use in solid red, yellow, and orange colors.

- **L.S. Oxide Red** U7273  - Used to increase mixing accuracy in whites, silvers and pastel colors. Excellent to tint solid white. Use only small amounts when tinting metallics. Gives a chalky flop. Very opaque, dirty red.

- **Brilliant Red** U7283  - Very transparent bright blue shade red.

- **Scarlet Red** U7284  - Very transparent bright yellow shade red.

- **Transparent Red** U7287  - Highly transparent red with high chroma used to make red midcoats. Do not add unless already in the formula.
<table>
<thead>
<tr>
<th>Base Colorant</th>
<th>Color Group</th>
<th>Purity</th>
<th>Color Direction</th>
<th>Brightness of Flop</th>
<th>Tinting Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Yellow U7107</td>
<td>Yellows</td>
<td>Used primarily in metallics. Transparent yellow with a green face and very green flop.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel Titanate U7127</td>
<td>Yellows</td>
<td>Green shade yellow. Lacks color intensity. Weak tinting effect.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bright Green Shade Yellow U7128</td>
<td>Yellows</td>
<td>Bright yellow with a slightly green cast. Our cleanest yellow.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H.S. Low Opacity Yellow U7134</td>
<td>Yellows</td>
<td>Transparent green shade yellow. Slightly greener and dirtier than U7222 R.S. Gold.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H.S. Ferrite Yellow U7140</td>
<td>Yellows</td>
<td>Gives a dirty red shade yellow cast to solid colors.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R.S. Yellow U7231</td>
<td>Yellows</td>
<td>Red shade yellow on the face with a light red flop.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L.S. Oxide Yellow U7275</td>
<td>Yellows</td>
<td>Used to increase mixing accuracy in whites, silvers, and pastel colors. Very opaque yellow.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fast Yellow U7288</td>
<td>Yellows</td>
<td>Bright green shade yellow used in solid red, yellow, and orange colors.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Red Shade Yellow U7289</td>
<td>Yellows</td>
<td>Gives a chalky effect in solid colors. Do not use unless already in formula.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Gold**

- **H.S. Red Shade Gold U7222**  
  Transparent gold. Gives a red brown cast on the face and flop.

- **Copper Brown U7151**  
  Red shade brown with a slightly yellow face and red flop.

**Greens**

- **Yellow Shade Green U7137**  
  Green with a yellow cast on the face and flop.

- **H.S. Green U7238**  
  Green with a blue cast on the face and flop.
**White**

- **H.S. Bright White** U7282
  - High strength bright white.

- **White** U7080
  - Regular strength white. Good for adjusting metallic colors in small amounts.

**Blacks**

- **Black** U7081
  - Moves colors darker and dirtier on the face and flop.

- **H.S. Black** U7218
  - Moves colors darker and dirtier on the face and flop. Slightly bluer than U7081.

- **Deep Black** U7281
  - High jetness carbon black for use in solid blacks and to tint other colors. Readily darkens flop of metallic colors.
Aluminum Tinting Guide

**Aluminums**

- **Small Metallic**
  - U7201: Small flake size. Grayer than U7206.

- **Medium Metallic**
  - U7202: Medium standard flake. Lighter flop than U7204.

- **Large Metallic**
  - U7203: Large round shape flake. Gives a bright clean "metal flake" sparkle.

- **Coarse Metallic**
  - U7204: Large pancake shape flake. Brighter face and darker flop than U7202.

- **Paliochrome Gold**
  - U7205: Medium size gold flake metallic. Used in addition to or substitute for silver metallic or mica. Gives a gold sparkle with a yellow flop.
**ALUMINUMS**

- **Small Bright Metallic U7206**
  Small flake size. Bright on the face and slightly darker on the flop than U7201.

- **Medium Bright Metallic U7208**
  Small popcorn shape flake. Gives a grainy bright sparkle.

- **Ultra Fine Metallic U7214**
  Very fine flake. Do not use unless already in the formula.

- **Medium Bright Metallic U7217**
  Small popcorn shape flake. Gives a grainy bright sparkle.

- **Paliochrome Orange U7221**
  Medium size orange flake metallic. Used in addition to or substitute for silver metallic or mica. Gives an orange sparkle.
**PEARLS** In order to ensure accurate color match, it is imperative that all paste pearls are strongly shaken for a minimum of 5 seconds before reduction and application. This shaking will ensure that the pearl and xirallic pigments are properly mixed before adding to formula, thus producing consistent color accuracy.

- **Pearl Tone Interference Green** PT7 Used in addition to or substitute for metallic. Gives a blue green face and yellow green flop.
- **Pearl Tone Small White** PT9 Used in addition to or substitute for metallic. Will lighten a dark flop without drastically changing the face.
- **Pearl Tone Bronze** PT10 Used in addition to or substitute for metallic. Yellow face and flop.
- **Pearl Tone Russet** PT11 Used in addition to or substitute for metallic. Red yellow face and flop. Larger particle size than PT12 Pearl Tone Small Russet.
- **Pearl Tone Small Russet** PT12 Used in addition to or substitute for metallic. Red yellow face and flop. Smaller particle size than PT11 Pearl Tone Russet.
- **Pearl Tone Interference Blue** PT13 Used in addition to or substitute for metallic. Gives a blue face and flop. Larger particle size than PT23 Pearl Tone Fine Blue.
**Pearls**

In order to ensure accurate color match, it is imperative that all paste pearls are strongly shaken for a minimum of 5 seconds before reduction and application. This shaking will ensure that the pearl and xirallic pigments are properly mixed before adding to formula, thus producing consistent color accuracy.

<table>
<thead>
<tr>
<th>Color Group</th>
<th>Name</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pearl Tone Orange</td>
<td>PT14</td>
<td>Used in addition to or substitute for metallic. Gives an orange face with little effect on the flop.</td>
</tr>
<tr>
<td></td>
<td>Pearl Tone Lilac</td>
<td>PT15</td>
<td>Used in addition to or substitute for metallic. Gives a red face to blue colors with little effect on the flop. Redder than PT25 Pearl Tone Fine Violet.</td>
</tr>
<tr>
<td></td>
<td>Pearl Tone Gold</td>
<td>PT16</td>
<td>Used in addition to or substitute for metallic. Gives a gold-yellow face, with little effect on the flop.</td>
</tr>
<tr>
<td></td>
<td>Pearl Tone Copper</td>
<td>PT17</td>
<td>Used in addition to or substitute for metallic. Gives a copper (red brown) face and flop. Redder than PT10 Pearl Tone Bronze.</td>
</tr>
<tr>
<td></td>
<td>Pearl Tone Red</td>
<td>PT18</td>
<td>Used in addition to or substitute for metallic. Clean red blue face with little or no effect on the flop.</td>
</tr>
<tr>
<td></td>
<td>Pearl Tone Moss Green</td>
<td>PT19</td>
<td>Used in addition to or substitute for metallic. Clean green mica with a blue green face and yellow green flop. Yellower and stronger in tinting strength than PT7 Pearl Tone Interference Green.</td>
</tr>
<tr>
<td></td>
<td>Pearl Tone Fine White</td>
<td>PT20</td>
<td>Used in addition to or substitute for metallic. Our smallest white mica with a lighter flop than PT9 Pearl Tone Small White. Will lighten a dark flop without drastically changing the face.</td>
</tr>
</tbody>
</table>
In order to ensure accurate color match, it is imperative that all paste pearls are strongly shaken for a minimum of 5 seconds before reduction and application. This shaking will ensure that the pearl and xirallic pigments are properly mixed before adding to formula, thus producing consistent color accuracy.

**Pearl Tone PT22**
Aqua Green
Used in addition to or substitute for metallic. Medium particle size with a blue green face and a yellow green flop.

**Pearl Tone PT23**
Fine Blue
Used in addition to or substitute for metallic. Gives a blue face and flop. Smaller particle size than PT13 Pearl Tone Interference Blue.

**Pearl Tone PT24**
Fine Green
Used in addition to or substitute for metallic. Gives a blue green face and a yellow green flop. Smaller particle size than PT7 Pearl Tone Interference Green.

**Pearl Tone PT25**
Fine Violet
Used in addition to or substitute for metallic. Gives a red face and flop. Bluer than PT15 Pearl Tone Lilac.

**Pearl Tone PT26**
Scarab Red
Used in addition to or substitute for metallic. Gives a green face with a red brown flop.

**Pearl Tone PT27**
Fine Copper
Used in addition to or substitute for metallic. Gives a copper (red brown) face and flop. Smaller particle size than PT17 Pearl Tone Copper.

**Pearl Tone PT28**
Fine Gold
Used in addition to or substitute for metallic. Gives a gold-yellow face, with little effect on the flop. Smaller particle size than PT16 Pearl Tone Gold.
PEARLS

In order to ensure accurate color match, it is imperative that all paste pearls are strongly shaken for a minimum of 5 seconds before reduction and application. This shaking will ensure that the pearl and xirallic pigments are properly mixed before adding to formula, thus producing consistent color accuracy.

- **Pearl Tone White** (PT29): Clean white pearl used to match pearlescent and pearl midcoat colors.
- **Pearl Tone Crystal Silver** (PT30): Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl.
- **Pearl Tone Copper** (PT31): Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl. Tints similar to PT17 Pearl Tone Copper.
- **Pearl Tone Sunbeam Gold** (PT32): Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl. Yellow flop than traditional pearl. Tints similar to PT16 Pearl Tone Gold.
- **Pearl Tone Radiant Red** (PT33): Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl. Tints similar to PT11 Pearl Tone Russet.
- **Pearl Tone Galaxy Blue** (PT34): Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl. Tints similar to PT13 Pearl Tone Interference Blue.
- **Pearl Tone Stellar Green** (PT35): Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl. Tints similar to PT7 Pearl Tone Interference Green.
**Specialty Colorants**

- **Interior Flattening Base** T1-F270  Used to mix Ultra Interior® colors. **Do not use in exterior applications.**

- **Frost White** U7146  **Basecoat colors only.** Used in addition to metallic or mica producing a unique frosted glaze appearance with a yellow glow on the face and a blue flop.

- **Graphitan** U7213  **Basecoat colors only.** Used in addition to metallic and mica providing a soft antique metallic effect. In strong sunlight the flop appears smoky brown.

- **Effect Additive** U7271  In addition to producing flat and semi-gloss finishes, small quantities (10% or less) can be used to lighten the flop of a metallic basecoat color and create the appearance of a larger metallic sparkle while having little effect on the face of the color. These effects are more subtle than using white or white mica.

- **Clear Binder** U7209  **Basecoat colors only.** Basecoat balancing clear.

- **Midcoat Mixing Clear** U7215  **Basecoat colors only.** Used in 3-Stage mid-coat colors.
Using the ULTRA SYSTEM® Colorant Pictographs

The characteristics of color are consistent throughout the world, therefore the Ultra System® toner pictographs are designed to provide paint/color technicians a visual explanation of the characteristics of each colorant, independent of the technicians language or geographical location. Just as with a printed description of color characteristics, a basic knowledge of color theory is necessary to effectively utilize this tool.

The pictograph shows each colorant’s characteristics of lightness, saturation, and hue from both Face and Flop as follows:

1) **Color Group is the Basic Color.** In the example given above, the “Color Group” is “Blue”. Colorant groups are Blue, Violet, Magenta, Maroon, Red, Orange, Yellow, Gold, Green, White, Black, Metallic, Mica, and Specialty.

2) **Purity.** Indicates how “Clean” or “Dirty / Gray” the colorant appears when viewed from the “Face” or “Head-On”. The white icon indicates that U7233 is a “clean” or “pure” blue. In simplest terms, “pure” or “clean” indicates an absence of Grayness; the term “Dirty” indicates the presence of Grayness.

3) **The arrow.** Indicates “Color Direction” or “Cast” of the colorant as viewed from the “Face” or “Head On”. Each colorant group can vary in only two directions and are indicated to the right and left of the “Color Group” icon. The arrow indicates that U7233 is a “Green Shade” Blue.

4) **Color direction of Flop.** The “red” icon indicates that when used in a metallic color, this blue appears “red” or “purple” when viewed from an angle.

5) **Brightness of Flop.** The “gray” icon indicates that when used in a metallic color, this blue has a slightly “dark” appearance when viewed from an angle.