**Blues**

- **Medium Blue**
  - U9140: Blue with a green face and slightly red flop.

- **Blue**
  - U9141: Red face and red flop blue. Used to tint solid, metallic, and pearl colors.

**Violets**

- **HS Violet**
  - U9130: Blue cast in solid and metallic colors on the face and flop.

- **HS Purple**
  - U9131: Very red shade blue on the face and flop. Do not use unless already in the formula.

- **Violet**
  - U9180: Blue cast in solid and metallic colors on the face and flop. Lower strength version of U9130.

- **Purple**
  - U9181: Very red shade blue on the face and flop. Do not use unless already in the formula. Lower strength version of U9131.
MAGENTAS AND MAROONS

- Magenta U9122: Clean blue cast in solid and metallic colors.
- HS Maroon U9160: Gives a blue face with a yellow flop. Used in maroons and dark red metallics.
- Maroon U9184: Gives a blue face with a yellow flop. Used in maroons and dark red metallics. Lower strength version of U9160.

GREENS

- HS Yellow Shade Green U9150: Green with a yellow cast on the face and flop.
- HS Blue Shade Green U9151: Green with a blue cast on the face and flop.
- Yellow Shade Green U9182: Green with a yellow cast on the face and flop. Lower strength version of U9150.
- Blue Shade Green U9183: Green with a blue cast on the face and flop. Lower strength version of U9151.
**Ultra 9K™ Base Colorant Tinting Guide**

### Yellows

- **Bright Yellow** (U9170)
  - Bright yellow with a slightly green cast. Our cleanest yellow.

- **Trans Yellow** (U9171)
  - Red shade yellow on the face with a light red flop.

- **Red Shade Yellow** (U9172)
  - Red shade yellow on the face with a light red flop.

- **Pale Yellow** (U9173)
  - Green shade very opaque yellow. Lacks color intensity. Weak tinting effect.

- **Yellow Oxide** (U9174)
  - Very opaque dirty yellow. Gives a dirty yellow cast to solid colors.

- **Yellow Transoxide** (U9175)
  - Transparent green shade yellow. Used in gold and silver metallic colors.

- **Green Shade Yellow** (U9176)
  - Used primarily in metallics. Transparent yellow with a green face and very green flop.
## Gold

- **Red Transoxide** (U9125)  
  Dirty transparent red shade gold. Gives a red brown cast on the face and flop.

## Reds

- **Bright Red** (U9120)  
  Clean opaque red for use in solid red, yellow and orange colors. Do not use in white or metallics.

- **Scarlet Red** (U9121)  
  Very transparent bright yellow shade red. Use for metallic and pearl colors.

- **Trans Red** (U9123)  
  Blue shade red on the face and flop. Used in solid reds and red metallics.

- **Red Oxide** (U9124)  
  Very opaque dirty yellow shade red. Excellent to tint solid white. Use only small amounts when tinting metallic colors.

## Browns and Coppers

- **Copper Brown** (U9161)  
  Red shade brown with a slightly yellow face and red flop.
**Basecoat Aluminums**

- **Gold Metallic** U9030
  - Medium size gold flake metallic. Used in addition to or substitute for silver metallic or pearl. Gives a gold sparkle with a yellow flop.

- **Orange Metallic** U9031
  - Medium size orange flake metallic. Used in addition to or substitute for silver metallic or mica. Gives an orange sparkle.

- **Red Metallic** U9032
  - Medium size red flake metallic. Used in addition to or substitute for silver metallic or mica. Gives a red sparkle.

- **Ultra Fine Metallic** U9040
  - Very fine flake. Do not use unless already in the formula.

- **Small Metallic** U9041
  - Small flake size. Light on the flop.

- **Bright Small Metallic** U9042
  - Small flake size. Bright on the face and slightly darker on the flop than U9041.

- **Coarse Metallic** U9043
  - Large shape flake. Bright face and dark flop.

- **Very Coarse Metallic** U9044
  - Very large metallic. Bright face and dark flop.

- **Medium Metallic** U9190
  - Medium shape flake. Lighter on the face, dark flop.

- **Bright Coarse Metallic** U9191
  - Large shape flake. Bright face, minimal travel on the flop.
# Ultra 9K™ Base Colorant Tinting Guide

## Whites

<table>
<thead>
<tr>
<th>Color</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>U9011</td>
<td>Bright white used to match solid colors and small amounts in effect colors.</td>
</tr>
<tr>
<td>Extra White</td>
<td>U9012</td>
<td>High strength bright white used to create white and near white solid colors.</td>
</tr>
</tbody>
</table>

## Blacks

<table>
<thead>
<tr>
<th>Color</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Lampblack</td>
<td>U9001</td>
<td>Moves colors darker and dirtier on the face and flop. Has a blue chalky undertone.</td>
</tr>
<tr>
<td>Special Black</td>
<td>U9002</td>
<td>Moves colors darker and dirtier on the face and flop.</td>
</tr>
<tr>
<td>Black</td>
<td>U9003</td>
<td>High strength black for use in solid blacks and to tint other colors. Readily darkens flop of metallic colors.</td>
</tr>
<tr>
<td>Deep Black</td>
<td>U9004</td>
<td>High jetness carbon black for use in solid blacks.</td>
</tr>
</tbody>
</table>
## Specialty Toners

<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>Trans White</td>
<td>U9010</td>
<td>Used in addition to metallic or pearl producing a unique frosted glaze appearance with a yellow glow on the face and a blue flop.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base Additive</td>
<td>U9020</td>
<td>Basecoat additive. Also used in 3-Stage mid-coat colors.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effect Additive</td>
<td>U9021</td>
<td>15% 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 pearl.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Ultra 9K™
## Base Colorant Tinting Guide

### Pearls

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<tr>
<th>Color Group</th>
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</thead>
<tbody>
<tr>
<td>Ultra 9K ™</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Fine White Pearl U9050**
Used in addition to or substitute for metallic. Our smallest white mica with a lighter flop than U9051 Small White Pearl. Will lighten a dark flop without drastically changing the face.

**Small White Pearl U9051**
Used in addition to or substitute for metallic. Smaller particle size and lighter flop than U9052 White Pearl. Will lighten a dark flop without drastically changing the face.

**White Pearl U9052**
White pearl used to match pearlescent and pearl midcoat colors.

**Crystal Silver Pearl U9053**
Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl.

**Gold Pearl U9060**
Used in addition to or substitute for metallic. Gives a gold-yellow face, with little effect on the flop.
**PEARLS**

- **Sunbeam Gold Pearl** U9061
  - Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl.

- **Copper Pearl** U9070
  - Used in addition to or substitute for metallic. Gives a copper (red brown) face and flop.

- **Small Red Pearl** U9080
  - Used in addition to or substitute for metallic. Red yellow face and flop. Smaller particle size than U9081Red Pearl.

- **Red Pearl** U9081
  - Used in addition to or substitute for metallic. Red yellow face and flop.

- **Bright Red Pearl** U9082
  - Used in addition to or substitute for metallic. Clean red blue face with little or no effect on the flop.
# Ultra 9K™ Base Colorant Tinting Guide

## Pearls

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<th>Brightness of Flop</th>
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</thead>
<tbody>
<tr>
<td>Radiant Red Pearl</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purple Pearl</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Blue Pearl</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blue Pearl</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Galaxy Blue Pearl</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Radiant Red Pearl** U9083: Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl.
- **Purple Pearl** U9090: Used in addition to or substitute for metallic. Gives a red face to blue colors with little effect on the flop.
- **Fine Blue Pearl** U9100: Used in addition to or substitute for metallic. Gives a blue face and flop. Smaller particle size than U9101 Blue Pearl.
- **Blue Pearl** U9101: Used in addition to or substitute for metallic. Gives a blue face and flop.
- **Galaxy Blue Pearl** U9102: Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl.
**PEARLS**

- **Green Pearl** U9110
  - Used in addition to or substitute for metallic. Gives a blue green face and yellow green flop.

- **Blue Green Pearl** U9111
  - Used in addition to or substitute for metallic. Medium particle size with a blue green face and a yellow green flop.

- **Stellar Green Pearl** U9112
  - Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow flop than traditional pearl.
Using the Ultra 9K™ Colorant Pictographs

The characteristics of color are consistent throughout the world, therefore the Ultra 9K™ 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, Aluminums, Pearls, 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 U9140 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 U9140 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.