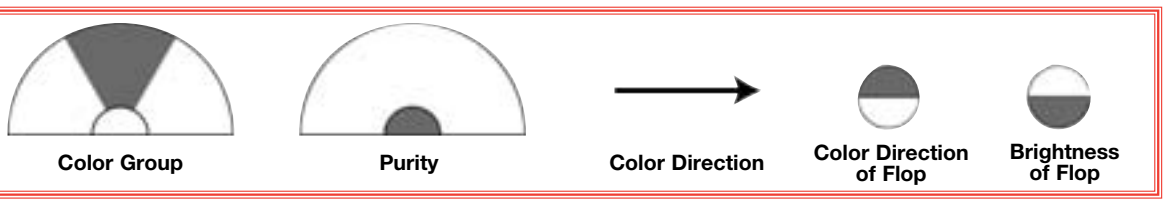
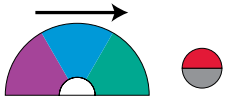
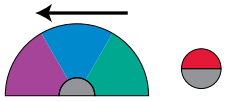
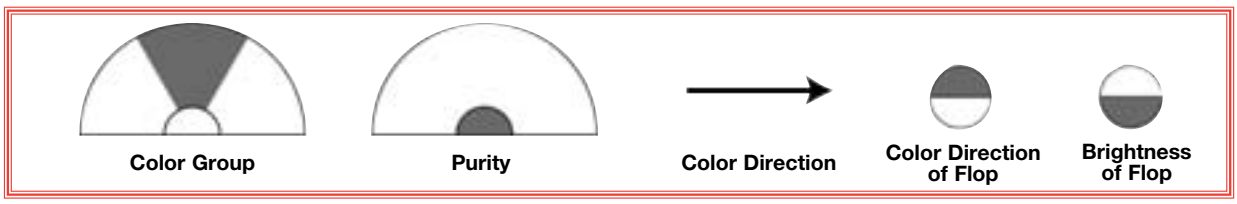
BASE COLORANTS
Blues

Name	S-W #	Remarks
		BLUES
HS PC Blue	U7120	Blue with a green face and a red side tone (flop).
HS Red Shade PT Blue	U7132	Blue with a slightly red face and side tone (flop).
HS Green Shade PT Blue	U7133	Blue with a green face and slightly red side tone (flop).
HS Green Shade PT Blue	U7233	Blue with a green face and slightly red side tone (flop). Cleaner than U7133.
HS Indo Blue	U7135	Our reddest shade blue on the face and side tone (flop). Gives a red cast to both solid and metallic colors. Appears very red and dirty when used in medium to dark solid blues.
HS Indo Blue	U7235	Our reddest shade blue on the face and side tone (flop). Gives a red cast to both solid and metallic colors. Appears very red and dirty when used in medium to dark solid blues. Cleaner than U7135.
Basecoat Colorant	U7046	Blue with a green face and Oceanic Blue green side tone (flop). Slightly greener than U7120.
Basecoat Colorant Azure Blue	U7048	Blue with a very green face and a red side tone (flop).

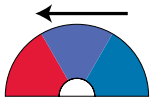
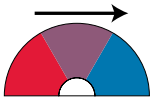
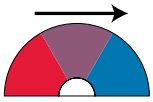
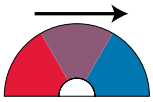


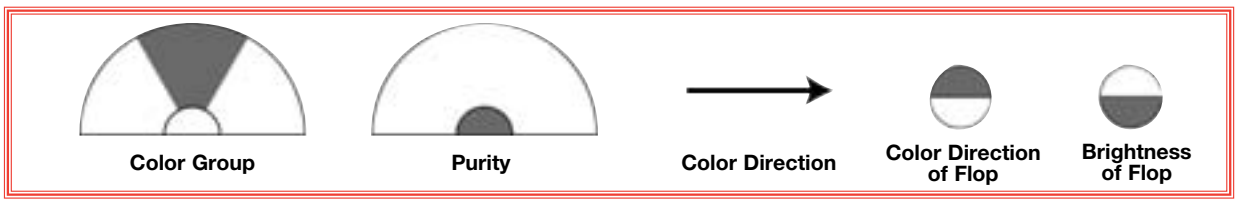
BASE COLORANTS
Blues

	Name	S-W #	Remarks BLUES
	Low Strength Blue	U7276	Used to increase mixing accuracy in whites, silvers and pastel colors. Blue with a slightly green face and slightly red side tone (flop).
	Trans Red Shade Blue	U7277	Unique transparent red face and slightly green side tone (flop) PC blue. Used to tint metallic and pearl colors. Should only be used if already in the formula.
	HS Red Shade Blue	U7280	Semi-opaque, red face and red side tone (flop) PC blue. Used to tint solid, metallic, and pearl colors.



BASE COLORANTS
Violets

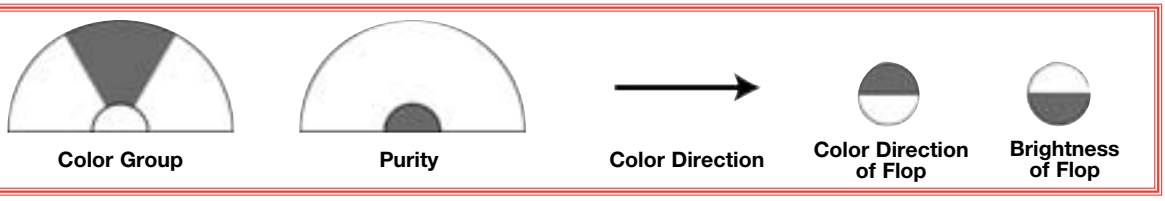
	Name	S-W #	Remarks
			VIOLETS
	Carba Violet	U7111	Very red shade blue on the face and side tone (flop). **Do not use unless already in the formula.**
	HS PT Violet	U7139	Blue cast in solid and metallic colors on the face and side tone (flop). Blue and dirty compared to U7036.
	Basecoat Colorant HS Violet	U7039	**Basecoat colors only.** Has a blue cast in solid and metallic colors on the face and side tone (flop). Blue and dirty compared to U7036.
	Low Strength Violet	U7272	Used to increase mixing accuracy in whites, silvers and pastel colors. Red shade violet.



BASE COLORANTS
Magentas & Maroons

SHERWIN WILLIAMS®
Automotive Finishes

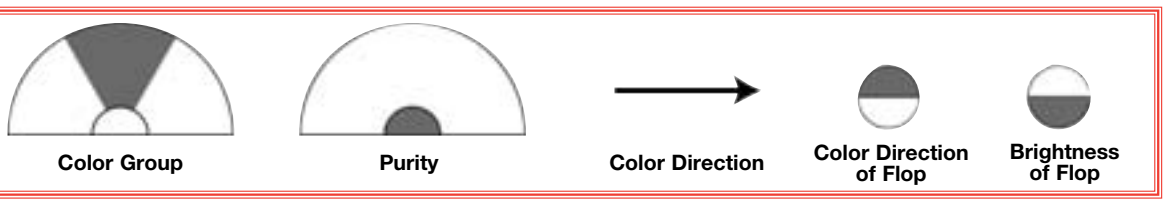
Name	S-W #	Remarks MAGENTAS & MAROONS
Basecoat Colorant Ultra HS Perylene Maroon	U7034	Gives a blue face with a yellow side tone (flop). Used in maroons and dark red metallics.
Basecoat Colorant Ultra HS Blue Shade Magenta	U7037	Clean blue cast with a dark side tone (flop). Darker and cleaner than U7036. Primarily used in metallics.
Basecoat Colorant Ultra HS Magenta	U7036	Clean blue cast in solid and metallic colors. Cleaner than Violets U7139, or U7039.
HS Maroon	U7123	Darker on the face and side tone (flop) than HS Red U7119. Gives a dirty dark blue redness to maroons and dark red metallics. Blue and dirty compared to U7036.
HS Golden Maroon	U7136	Yellow amber cast in metallic and solid colors on face and side tone (flop).



BASE COLORANTS
Reds & Oranges

SHERWIN WILLIAMS®
Automotive Finishes

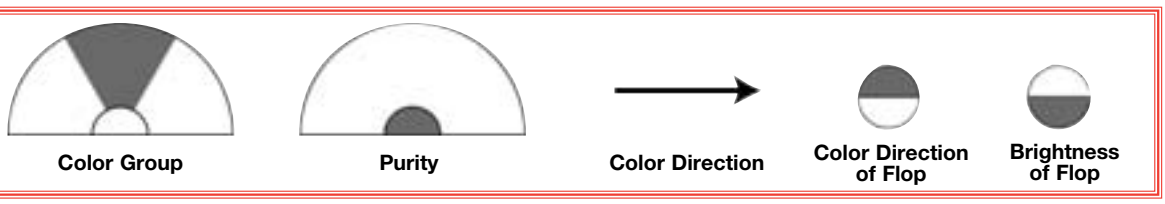
Name	S-W #	Remarks
		REDS
Basecoat Colorant Ultra HS Monastral Red	U7030	Yellow shade red on the face and side tone (flop). Used in solid reds, whites, and red metallics.
Basecoat Colorant Ultra HS Bright Red	U7031	Our cleanest and yellowest basecoat red. **Do not use in white or metallics.**
Russet Red	U7106	Excellent to tint solid colors. **Use only small amounts when tinting metallics colors. Gives a chalky side tone (flop).**
HS Red	U7119	Primarily used in metallics. Yellower on the face and side tone (flop) than Maroon U7123. Good for a yellow (gold) side tone (flop) in red metallics.
Low Strength Red Oxide	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 side tone (flop).** Very opaque, dirty red.
Brilliant Red	U7283	Very transparent bright blue shade red.
Scarlet red	U7284	Very transparent bright yellow shade red.
Orange	U7124	Dirty opaque orange for use in solid red, yellow and orange colors.



BASE COLORANTS
Yellows

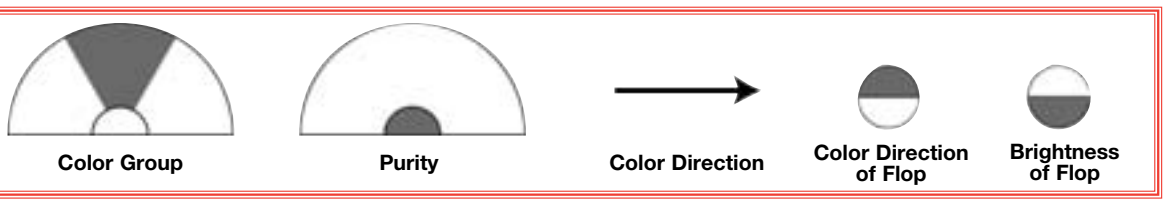
SHERWIN WILLIAMS®
Automotive Finishes

Name	S-W #	Remarks
		YELLOWS
Organic Yellow	U7107	Used primarily in metallics. Transparent yellow with a green face and very green side tone (flop).
Nickel Titanate	U7127	Green shade yellow. Lacks color intensity. Weak tinting effect.
Bright Green Shade Yellow	U7128	Bright Yellow with a slightly green cast. Our cleanest Yellow.
HS Red Shade Yellow	U7131	Red shade yellow on the face with a light red side tone (flop).
HS Red Shade Yellow	U7231	Red shade yellow on the face with a light red side tone (flop). Cleaner than U7131.
HS Low Opacity Yellow	U7134	Transparent green shade yellow. Slightly greener and dirtier than Gold U7122.
HS Ferrite Yellow	U7140	Gives a dirty red shade yellow cast to solid colors.
Low Strength Ferrite Yellow	U7275	Used to increase mixing accuracy in whites, silvers and pastel colors. Very opaque yellow.



BASE COLORANTS
Golds & Greens

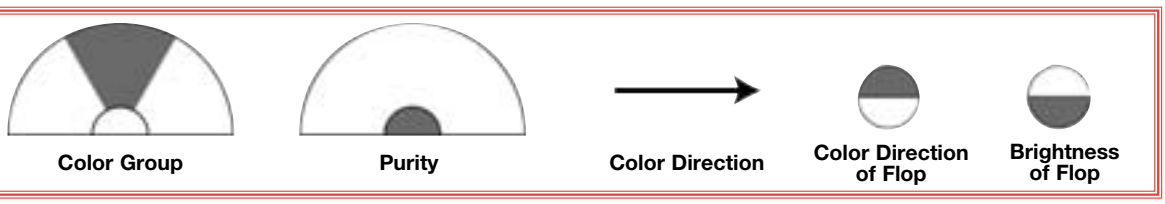
Name	S-W #	Remarks
		GOLDS
HS Red Shade Gold	U7122	Transparent gold. Gives a red brown cast on the face and side tone (flop).
HS Red Shade Gold	U7222	Transparent gold. Gives a red brown cast on the face and side tone (flop).
Basecoat Colorant Copper Brown	U7151	Red shade brown with a slightly yellow face and red side tone (flop).
		GREENS
HS Yellow Shade PT Green	U7137	Green with a yellow cast on the face and side tone (flop).
HS PT Green	U7138	Green with a blue cast on the face and side tone (flop).
HS PT Green	U7238	Green with a blue cast on the face and side tone (flop). Cleaner than U7138.



BASE COLORANTS
Whites & Blacks

SHERWIN WILLIAMS®
Automotive Finishes

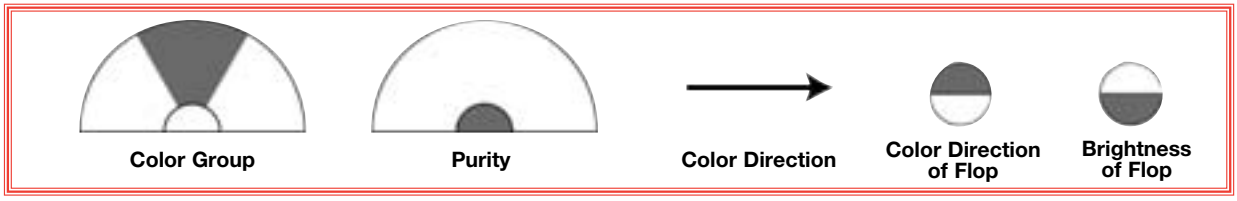
Name	S-W #	Remarks
		WHITES
Basecoat Colorant BC White	U7282	High strength bright white.
White	U7080	Regular strength white. Good for adjusting metallic colors in small amounts.
Super White	U7110	High Strength White used in white and light pastels. **Should not be used to tint metallic colors.**
		BLACKS
Black	U7081	Moves colors darker and dirtier on the face and side tone (flop). Slightly yellower on the face and side tone (flop) than Black U7118.
HS Black	U7118	Moves colors darker and dirtier on the face and side tone (flop). Slightly bluer than U7081.
HS Black	U7218	Moves colors darker and dirtier on the face and side tone (flop). Slightly bluer than U7081. Cleaner than U7118.
Deep Black	U7281	High jetness carbon black for use in solid blacks and to tint other colors. Readily darkens side tone (flop) of metallic colors.



BASE COLORANTS
Basecoat Metallics

SHERWIN WILLIAMS®
Automotive Finishes

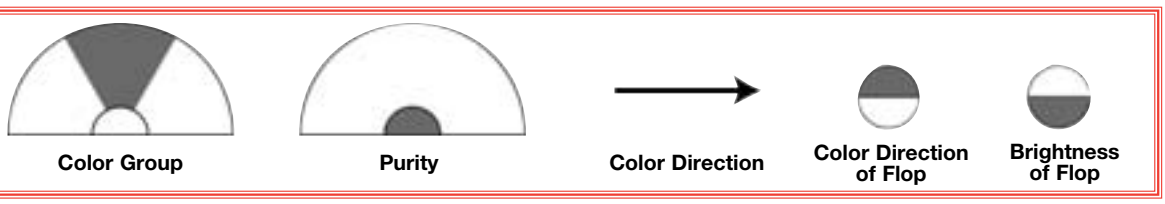
Name	S-W #	Remarks BASECOAT METALLICS
Basecoat Colorant Metallic No. 1	U7000	Our finest and grayest flake.
Basecoat Colorant Metallic No. 2	U7001	Medium flake size. Lighter on the side tone (flop) than Metallic U7006.
Basecoat Colorant Metallic No. 3	U7002	Large flake size. Lighter side tone (flop) than U7023.
Basecoat Colorant Small Metallic Flake	U7006	Medium flake size. Bright on the face and slightly darker on the side tone (flop) than Metallic U7001.
Basecoat Colorant Fine Metallic	U7011	Small popcorn shape flake. Gives a grainy bright sparkle.
Basecoat Colorant Medium Metallic	U7012	Medium pancake shape flake. Gives a bright clean “metal flake” sparkle.
Basecoat Colorant Large Metallic	U7023	Large pancake shape flake. Brighter face and darker side tone (flop) than U7002.
Basecoat Colorant Gold Metallic	U7024	Medium size gold flake metallic. Used in addition to or substitute for silver metallic or mica. Gives a gold sparkle with a yellow side tone (flop).
Basecoat Colorant Copper Metallic (MIO2)	U7032	Used in addition to or substitute for metallic. Gives a copper sparkle and a slightly red brown side tone (flop).



BASE COLORANTS
Basecoat Metallics

SHERWIN WILLIAMS®
Automotive Finishes

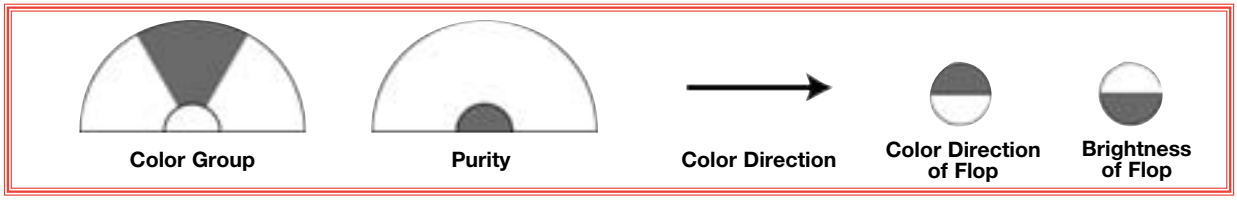
Name	S-W #	Remarks BASECOAT METALLICS
Small Metallic	U7201	Small flake size. Grayer than metallic U7206.
Medium Metallic	U7202	Large standard flake. Lighter side tone (flop) than U7204.
Large Metallic	U7203	Medium round shape flake. Gives a bright clean “metal flake” sparkle.
Coarse Metallic	U7204	Large pancake shape flake. Brighter face and darker side tone (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 side tone (flop).
Small Bright Metallic	U7206	Small flake size. Bright on the face and slightly darker on the side tone (flop) than Metallic U7201.
Medium Bright Metallic	U7208	Small popcorn shape flake. Gives a grainy bright sparkle.
Medium Bright Metallic	U7211	Small popcorn shape flake. Gives a grainy bright sparkle.
Coarse Metallic	U7212	Large pancake shape flake. Brighter face and darker side tone (flop) than U7202.
Paliochrome Orange	U7221	Medium size orange flake metallic. Used in addition to or substitute for silver metallic or mica. Gives an orange sparkle.



BASE COLORANTS
Micas

SHERWIN WILLIAMS®
Automotive Finishes

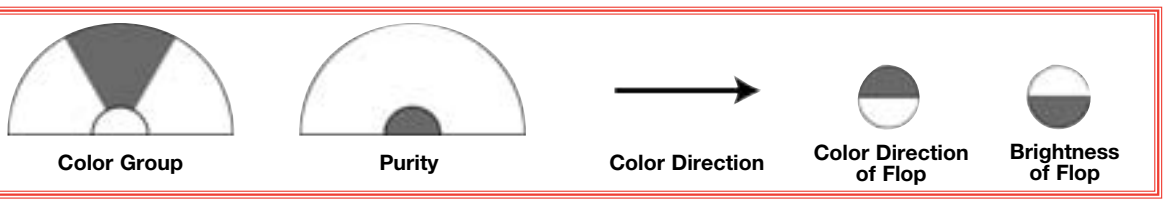
Name Pearl Tones	S-W #	Remarks DRY MICAS
Dry Basecoat Colorant Interference Green Mica	PT 7	Used in addition to or substitute for metallic. Gives a blue green face and yellow green side tone (flop).
Dry Basecoat Colorant White Mica	PT 8	Used in addition to or substitute for metallic. Light on theface and side tone (flop). Will lighten a dark side tone without drastically changing the face. Larger particle size and darker on the side tone (flop) than PT 9 Small White Mica.
Dry Basecoat Colorant Small White Mica	PT 9	Used in addition to or substitute for metallic. Smaller particle size and lighter side tone (flop) than PT 8 White Mica. Will lighten a dark side tone (flop) without drastically changing the face.
Dry Basecoat Colorant Bronze Mica	PT 10	Used in addition to or substitute for metallic. Yellow face and side tone (flop).
Dry Basecoat Colorant Russet Mica	PT 11	Used in addition to or substitute for metallic. Red yellow face and side tone (flop). Larger particle size than PT 12 Small Russet Mica.
Dry Basecoat Colorant Small Russet Mica	PT 12	Used in addition to or substitute for metallic. Red yellow face and side tone (flop). Smaller particle size than PT 11 Russet Mica.
Dry Basecoat Colorant Interference Blue Mica	PT 13	Used in addition to or substitute for metallic. Gives a blue face and side tone (flop).



BASE COLORANTS
Micas (cont.)

SHERWIN WILLIAMS®
Automotive Finishes

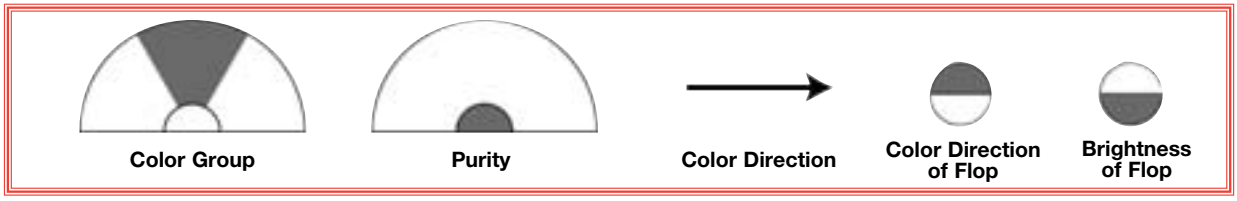
Name	S-W #	Remarks
Pearl Tones		**DRY MICAS**
Dry Basecoat Colorant Orange Mica	PT 14	Used in addition to or substitute for metallic. Gives an orange face with little effect on the side tone (flop).
Dry Basecoat Colorant Lilac Mica	PT 15	Used in addition to or substitute for metallic. Gives a red face to blue colors with little effect on the side tone (flop). Redder than PT 25 Fine Violet Mica.
Dry Basecoat Colorant Gold Mica	PT 16	Used in addition to or substitute for metallic. Gives a gold-yellow face, with little effect on the side tone (flop).
Dry Basecoat Colorant Copper Mica	PT 17	Used in addition to or substitute for metallic. Gives a copper (red brown) face and side tone (flop). Redder than PT 10 Bronze Mica.
Dry Basecoat Colorant Red Mica	PT 18	Used in addition to or substitute for metallic. Clean red blue face with little or no effect on the side tone (flop).
Dry Basecoat Colorant Moss Green Mica	PT 19	Used in addition to or substitute for metallic. Clean green mica with a blue green face and yellow green side tone (flop). Yellower and stronger in tinting strength than PT 7 Green Mica.
Dry Basecoat Colorant Fine White Mica	PT 20	Used in addition to or substitute for metallic. Our smallest white mica with a lighter side tone (flop) than PT 8 and PT 9 White Micas. Will lighten a dark side tone (flop) without drastically changing the face.
Dry Basecoat Colorant Blue Gray Mica	PT 21	Used in addition to or substitute for metallic. Gives a blue gray face and side tone (flop).



BASE COLORANTS
Micas (cont.)

SHERWIN WILLIAMS®
Automotive Finishes

Name	S-W #	Remarks
Pearl Tones		**DRY MICAS**
Dry Basecoat Colorant Aqua Green Mica	PT 22	Used in addition to or substitute for metallic. Medium particle size with a blue green face and a yellow green side tone (flop).
Dry Basecoat Colorant Fine Blue Mica	PT 23	Used in addition to or substitute for metallic. Gives a blue face and side tone (flop). Smaller particle size than PT 13.
Dry Basecoat Colorant Fine Green Mica	PT 24	Used in addition to or substitute for metallic. Gives a blue green face and a yellow green side tone (flop). Smaller particle size than PT 7.
Dry Basecoat Colorant Fine Violet Mica	PT 25	Used in addition to or substitute for metallic. Gives a red face and side tone (flop). Bluer than PT 15 Lilac Mica.
Dry Basecoat Colorant Scarab Red Mica	PT 26	Used in addition to or substitute for metallic. Gives a green face with a red brown side tone (flop).
Dry Basecoat Colorant Fine Copper Mica	PT 27	Used in addition to or substitute for metallic. Gives a copper (red brown) face and side tone (flop). Smaller particle size than PT 17 Copper Mica.
Dry Basecoat Colorant Fine Gold Mica	PT 28	Used in addition to or substitute for metallic. Gives a gold-yellow face, with little effect on the side tone (flop). Smaller particle size than PT 16.
White Mica	PT 29	Clean white pearl used to match pearlescent and pearl midcoat colors. Bluer than PT 8.

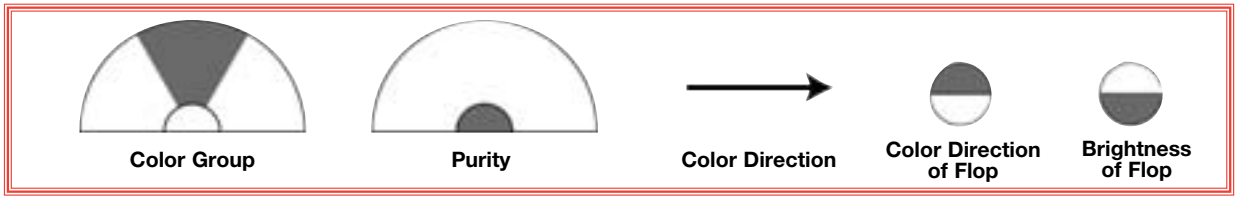


BASE COLORANTS
Micas (cont.)

SHERWIN WILLIAMS®
Automotive Finishes

Name	S-W #	Remarks
Pearl Tones		**DRY MICAS**
Crystal Silver Pearl	PT 30	Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow side tone (flop) than traditional pearl. Tints similar to PT8 White Mica.
Copper Pearl	PT 31	Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow side tone (flop) than traditional pearl. Tints similar to PT17 Copper Mica.
Radiant Gold Pearl	PT 32	Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow side tone (flop) than traditional pearl. Tints similar to PT16 Gold Mica.
Radiant Red Pearl	PT 33	Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow side tone (flop) than traditional pearl. Tints similar to PT11 Russet Mica.
Galaxy Blue Mica Pearl Tone	PT 34	Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow side tone (flop) than traditional pearl. Tints similar to PT13 Blue Mica.
Stellar Green Mica Pearl Tone	PT 35	Synthetic pearlescent crystal. Smaller particle size than traditional pearl with much larger sparkle. Cleaner / less yellow side tone (flop) than traditional pearl. Tints similar to PT7 Interference Green Mica.

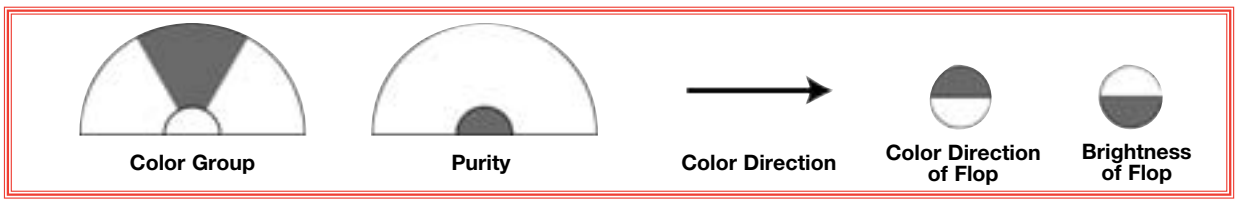
In order to insure accurate color match, it is imperative that all wet or dry mica and pearl color formulas are shaken on a mechanical shaker for a minimum of 15 minutes before reduction and application. This shaking will insure that the pearl and mica pigments are properly dispersed in the formula, guaranteeing more consistent color accuracy. Mixing these color formulas in a plastic mixing cup or metal can, followed by hand stirring, is not a recommended procedure, and can lead to unacceptable color match.



BASE COLORANTS
Specialty Toners

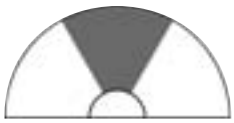
SHERWIN WILLIAMS®
Automotive Finishes

Name	S-W #	Remarks
Pearl Tones		**SPECIALTIES**
Flatting Base	T1-F271	In addition to producing flat and semi-gloss finishes, small quantities (10% or less) can be used to lighten the side tone (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.
Interior Flatting Base	T1-F270	Used to mix Ultra Interior colors. **Do not use in exterior applications.**
Basecoat Colorant Graphitan	U7013	**Basecoat colors only.** Used in addition to metallic and mica providing a soft antique metallic effect. In strong sunlight the side tone (flop) appears smoky brown.
Basecoat Colorant 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 side tone (flop).
Graphitan	U7213	**Basecoat colors only.** Used in addition to metallic and mica providing a soft antique metallic effect. In strong sunlight the side tone (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 side tone (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.



BASE COLORANTS
Specialty Toners

Name	S-W #	Remarks
Pearl Tones		**Mixing Clears**
Clear Binder	U7209	**Basecoat colors only.** Basecoat balancing clear.
3-Stage Mixing Clear	U7215	**Basecoat colors only.** Used in 3-Stage mid-coat colors.


Color Group

Purity

Color Direction

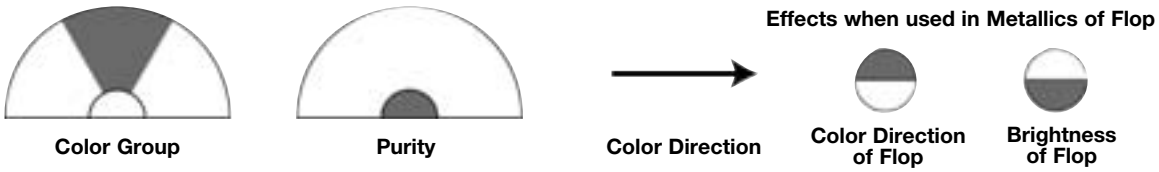
Color Direction of Flop

Brightness of Flop

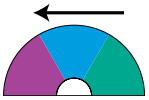
Using the Ultra System Colorant Pictographs

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 Depth, Cast, and Grayness from both Face and Flop (Side Tone) as follows:



Example: Characteristics of U7132 HS Red Shade PT Blue.

	HS Red Shade PT Blue	U7132	Blue with a slightly red face and side tone (flop).

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". The white icon indicates that U7132 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 U7132 is a "Red 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.