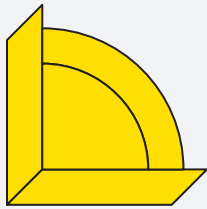
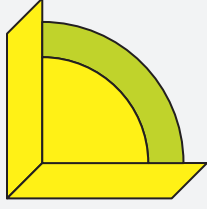
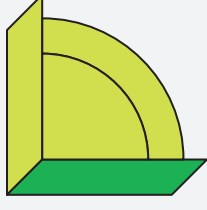
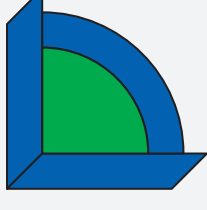
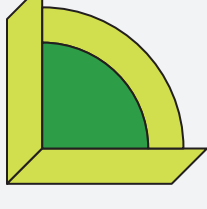
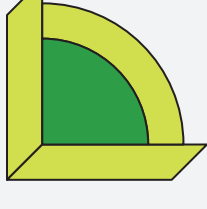
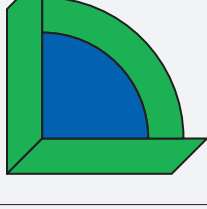
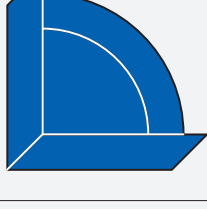
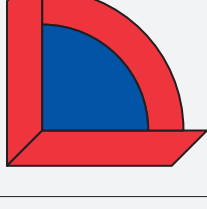
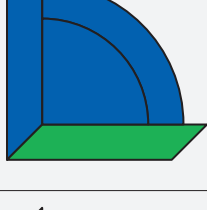
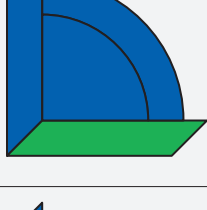
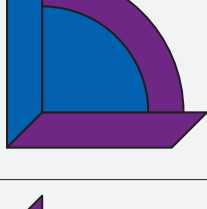
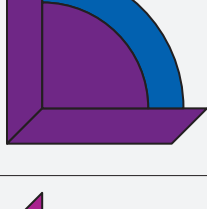
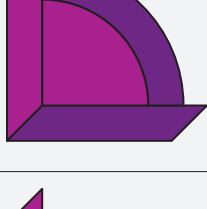
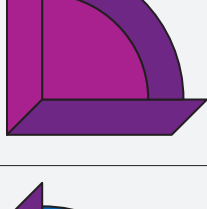
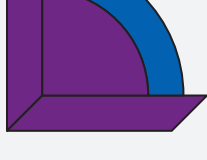
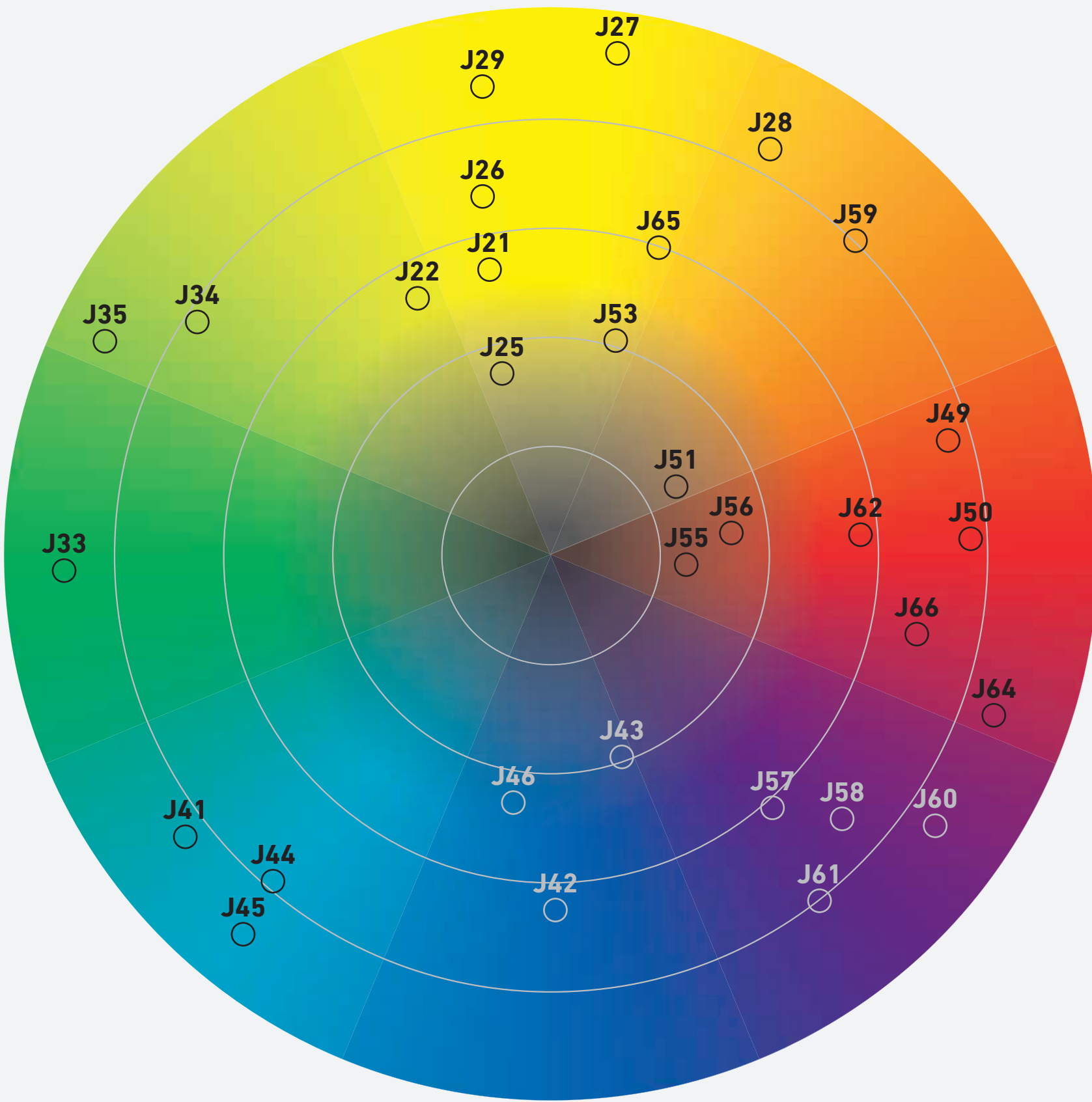
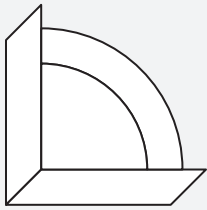
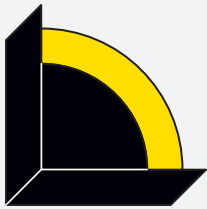
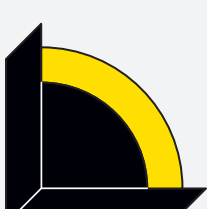


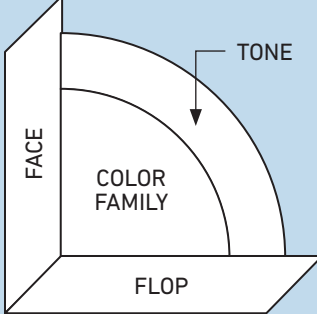
MIXING BASES

TONER SYMBOL	TONER	CHARACTERISTICS
	J27 Organic Yellow LF	Strong green shade yellow. Most effective when used in solid colors in color space of lead pigments. Not as clean as J29. Can be effectively shaded with J28, J59 and J49 to drive color into more reddish-yellow color space.
	J29 Inorganic Yellow (Green Shade)	Bright, clean green-shade yellow. Very effective when used in combination with J27 and J28 to cover the chrome yellow color space when lead free formulations are required.
	J22 Gold	Transparent, greenish shade yellow that can be used in both solid and metallic/pearl color formulas.
	J33 Blue Shade Green	Blue shade phthalo green used in both solid and metallic/pearl color formulas.
	J34 Yellow Shade Green	Yellow shade phthalo green used in both solid and metallic/pearl color formulas.
	J35 Phthalo Green Yellow	Yellow shade phthalo green used in both solid and metallic/pearl color formulas. Much stronger and more chromatic than J34.
	J41 Green Shade Blue	Green shade phthalo blue use in both solid and metallic/pearl formulas.
	J42 Red Shade Blue	Red shade phthalo blue use in both solid and metallic/pearl formulas. Offers both the reddest/cleanest face as well as reddish flop in comparison to J41 and J44.
	J43 Indo Blue	Indo reddish-shade blue. Can be used in both solid and metallic/pearl color formulas. Effective at shading over J41, J42 and J44 when colors require a reddish tint.
	J44 Medium Blue	Mid-shade phthalo blue used in both solid and metallic/pearl color formulas. Redder in face, greener on flop than J41. Greener flop than both J41 and J42.
	J45 Phthalo Blue (Green Shade)	Mid-shade phthalo blue, stronger and much more chromatic than J44 Can be used in both solid and metallic/pearl color formulas and offers a very clean green and dark flop.
	^{TBD} J46 / J40 Violet Blue	Very reddish blue that can be used in both solid and metallic/mica color formulas. Significantly stronger and more chromatic than J43, greener flop than J43 in metallic and mica colors.
	J57 Violet	Dirty bluish violet usually recommended to be used in low levels to shade both reds and blues more to the violet shade area. Will impact flop by appearing dirty/light.
	J58 Quindo Violet	Reddish shade violet that can be used in both solid and metallic/pearl color formulas. Effective at shading toners such as J64 and J66 requiring an adjustment to go bluer.
	J60 Violet	Reddish shade violet, stronger and more chromatic than J58 used primarily in metallic/pearl color formulas. Redder in face than J58, and bluer/darker on the flop.
	^{TBD} J61 / J39 Deep Violet	Bluish shade violet, redder and stronger than J57. Can be used in both solid and metallic/pearl color formulas.

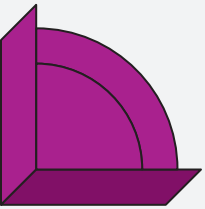
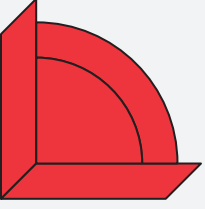
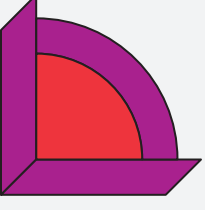
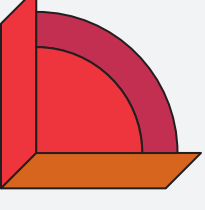
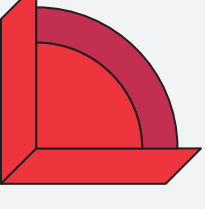
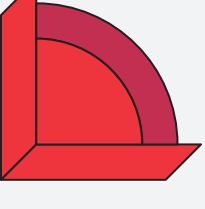
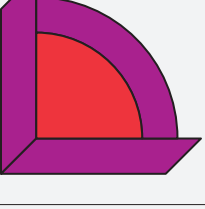
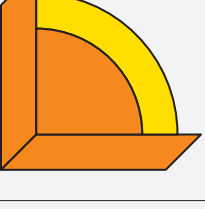
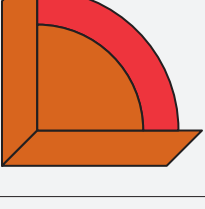
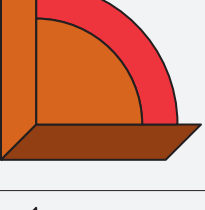
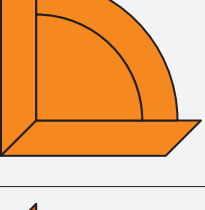
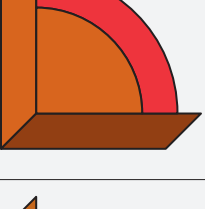
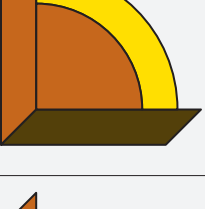
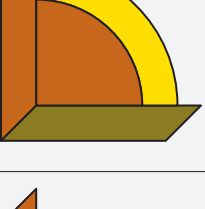
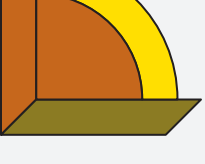


BLACKS & WHITES



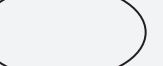


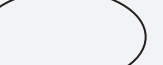


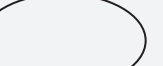





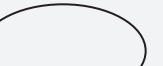


















TONER SYMBOL	TONER	CHARACTERISTICS
	J84 Hi Hiding White J83 Tinting White	Highly concentrated white base used primarily in solid color formulas.
	J86 Jet Black J87 Tinting Black	Strong black, not as jet/deep as J89. Will appear brown-er in deeper shade formulas, and bluer in metallic/pearl color formulas than J89. Weaker version of J86, desirable to use when tinting colors with very low concentrations in both solid and metallic/pearl formulas.
	J89 Deep Basecoat Black	Deep high-color jet black. Appears very dark and blue compared to J86 in solid colors. Primarily used in solid colors in high concentrations and in metallic/pearl color formulas when a more yellowish undertone and darker flop is desired.

PICTOGRAM KEY	
	<p>COLOR FAMILY – Yellow, Green, Blue, Violet, Red, etc.</p> <p>FACE – Color viewing angle that is heavily influenced by metallic or pearl pigments in a formula.</p> <p>FLOP – Color viewing angle that is generally darker and influenced mostly by the conventional pigments in a metallic or pearlescent color.</p> <p>tone – Cast of the color in relation to its hue shift and adjacent color family (green-shade blue, mid-shade blue, red-shade blue).</p>
NOTES	
TBD	All items with the TBD designation are to be determined for discontinuation.



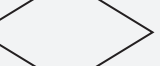


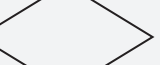


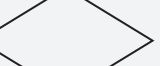


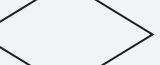


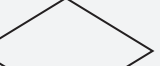


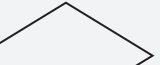


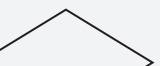


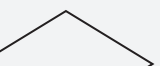
MIXING BASES

TONER SYMBOL	TONER	CHARACTERISTICS
	J64 Quindo Magenta	Magenta that is a very strong bluish-red, highly transparent toner. Used primarily in metallic/pearl color formulas. Bluer than J62 and yellower than J60. Used often in combination with these two toners to cover the red color space.
	^{TBD} J49 High Strength Red J48 Super Red	High chroma opaque red used primarily in solid colors. Very effective at tinting other organic yellows and oranges to cover the need for lead-free offers.
	J50 Organic Red	Semi-opaque red, bluer than J49 and useful in shading solid colors bluer. Can also be useful in metallic/pearl colors when a red flop is needed.
	^{TBD} J55 Quindo Maroon	Very yellowish/brown maroon that can be used in both solid and metallic/pearl color formulas. Yellower than J56 and appears opaque and brown on the flop when used in metallic/pearls.
	J56 Perylene Maroon	Yellowish shade perylene, bluer than J55. Used in solid and metallic/pearl color formulas. Weaker and much yellower than J62.
	J62 Perrindo Maroon	Very clean and transparent perylene maroon. Redder and more chromatic than J56 with a much deeper and darker flop in metallic and pearl formulations.
	J66 Quindo Red	Low chroma blue shade red. Not as clean, transparent or blue as J64. Can be used in both solid and metallic/pearl color formulas.
	J28 Red Shade Yellow LF	Strong red shade yellow most effective when used in solid colors in color space of lead pigments. Redder than J27. Can be effectively shaded with J59 and J49 to drive color into more reddish yellow color space.
	J51 Red Oxide	Clean opaque reddish brown for use in both solid and metallic/pearl formulations. Can be used to lighten flops and contribute a reddish tint at that angle.
	J53 Transparent Red Oxide	Transparent red iron oxide, more transparent than J51 and much cleaner/yellower. Used primarily in metallic/pearl color formulas. Weaker version of J65.
	^{TBD} J59 Organic Orange LF J30 Bright Orange	Strong clean organic orange pigment used primarily in solid colors. In combination with J49 red, J29, J27 and J28, can be very effective at covering the orange space where leaded pigments had been used.
	J65 Transparent Red Oxide	Transparent, red oxide. Stronger and more transparent than J53. Used primarily in metallic/pearl colors.
	J21 Transparent Yellow Oxide	Transparent yellow iron oxide, more transparent than J25. Used primarily in metallic/pearl color formulas. Not as reddish in shade as J25.
	J25 Yellow Oxide	Opaque yellow iron oxide, redder and more opaque than J21. Can be used in both solid and metallic/pearl formulas.
	J26 Red Shade Yellow	Transparent, reddish shade yellow that can be used in both solid and metallic/pearl color formulas. Redder option than J22 when used in any formulations as a tint.


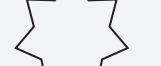
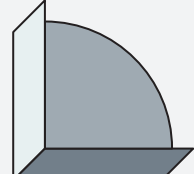
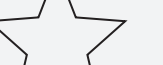







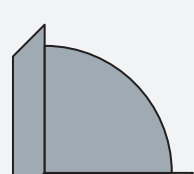




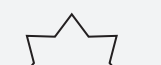




PEARLS

FLAKE SIZE	TONER	CHARACTERISTICS
  	J11 Fine Russet Mica	Deep red mica. Similar in color space but much finer in appearance than J17.
  	J12 Violet Mica	Transparent violet mica that travels from blue to yellow on the flop.
  	J13 Super Red Mica	Transparent red mica that travels from red to green on the flop.
  	J14 White Mica	Coarse clean white pearl.
  	J15 Blue Mica	Coarse blue mica that travels from blue to yellow on the flop.
  	J16 Green Mica	Transparent green mica that travels from green to red on the flop.
  	J17 Red Mica	Coarse deep red mica.
  	J18 Copper Mica	Opaque copper mica that has minimal color travel.
  	J19 Gold Mica	Rich gold mica that travels from yellow to blue on the flop.
  	J20 Fine White Mica	Clean white fine mica, same color space but much finer than J14.
  	J67 Fine Blue Pearl	Fine blue mica, same color space and travel as J15.

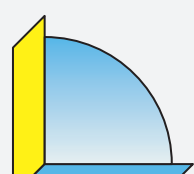
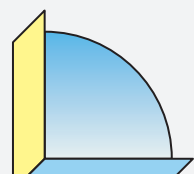
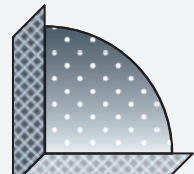
SPECIAL EFFECTS




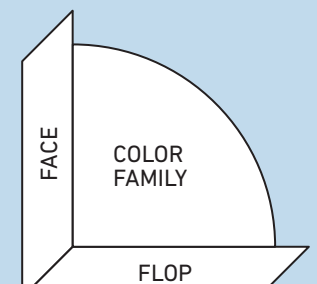
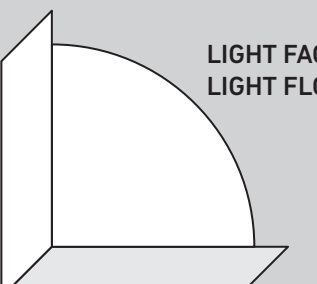

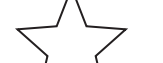

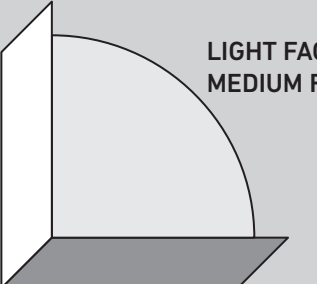



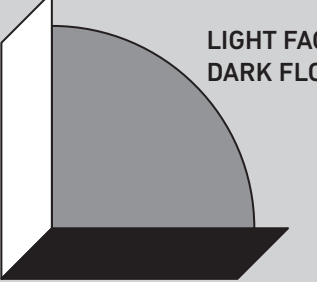

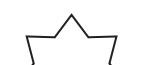

FLAKE SIZE	TONER	CHARACTERISTICS
  	J01 Silver Diamonds	Brilliant white flake pigment, coloristically close to J14 with more sparkle.
  	J02 Gold Diamonds	Translucent brilliant gold flake pigment, coloristically close to J19 with more sparkle.
  	J03 Russet Diamonds	Opaque brilliant deep red flake pigment, coloristically close to J17 with more sparkle.
  	J04 Blue Diamonds	Translucent brilliant blue flake pigment, coloristically close to J15 with more sparkle.
  	J05 Red Diamonds	Translucent brilliant red flake pigment, coloristically close to J13 with more sparkle.
  	J06 Green Diamonds	Translucent brilliant green flake pigment, coloristically close to J16 with more sparkle.
  	J07 Copper Diamonds	Opaque brilliant deep copper flake pigment, coloristically close to J18 with more sparkle.
  	J08 Violet Diamonds	Translucent violet flake pigment with a violet face and green flop. Coloristically close to J12.

METALLICS

FLAKE SIZE	TONER SYMBOL	TONER	CHARACTERISTICS
  		J69 Extra Fine Aluminum	Similar particle size to J74. Brightest fine aluminum.
  		J70 Medium Aluminum	Slightly finer than J75, lighter flop.
  		J71 Coarse Aluminum	Similar particle size to J72, slightly grayer/darker face and flop.
  		J72 Medium Bright Aluminum	Slightly finer than J71, lighter in face and flop.
  		J73 Fine Gray Aluminum	Slightly brighter and coarser than J74, much darker flop.
  		J74 Fine Aluminum	Similar particle size to both J69 and J73, much grayer face and lighter flop.
  		J75 Fine Bright Aluminum	Similar particle size to J70, slightly brighter face and darker flop.
  		J76 Very Coarse Aluminum	Slightly coarser than J77, but lighter on the flop.
  		J77 Coarse Silver Dollar Aluminum	Medium lenticular aluminum with a very coarse appearance, bright face and dark flop.
  		^{TBD} J68 / J47 Blue Aluminum	Organic blue colored aluminum flake.
  		J78 Gold Aluminum	Pale yellow-gold aluminum flake. Considered a special effect pigment.
  		J79 Orange Aluminum	Deep reddish-gold aluminum flake.

FLOP ADJUSTERS

	TONER SYMBOL	TONER	CHARACTERISTICS
		J80 Micronized White	Micronized white used in combination with metallic and effect pigments to create a gold/yellow face and light blue flop.
		J81 Flattening Agent	Frost-colored white toner used to lighten flops on metallic/mica colors.
		J82 Flattening Base	Gives a more coarse appearance and lightens the flop.

FLAKE SIZE – SMALL MEDIUM LARGE	PICTOGRAM KEY	COLOR TRAVEL CHARACTERISTIC KEY
PEARLS   		 LIGHT FACE LIGHT FLOP
ALUMINUMS   		 LIGHT FACE MEDIUM FLOP
COLORED ALUMINUMS   		 LIGHT FACE DARK FLOP
LENTICULAR ALUMINUMS   		
SPECIAL EFFECTS 