

who has tailor-made solutions
for your coatings needs?

we do.

working for you.



The widest choice of organic pigments for coatings.



Sun Chemical Performance Pigments is a world-wide leading manufacturer of colors and effects for the coatings industry. New to the product portfolio are the ranges of aluminum flakes and specialty synthetic and natural mica interference pigments.

Illustrated in this brochure is the main product line from Sun Chemical organic pigments recommended for coatings. However, the list is not all inclusive and there may be other grades available to better suit your requirements. In addition, there are forms other than conventional dry powder, including water and resin based dispersions, standardized press cakes and flushes.

Contact your local Sun Chemical sales representative to answer any further questions you may have about our products.

Trade Name Information

Benda-Lutz Metallic Effects - Aluminum pigments for coatings, including cornflake and silver dollar types with a wide range of flake sizes to cover most coating application needs.

Fanchon - High performance pigments for industrial and automotive coatings.

Fastogen - Phthalocyanine pigments for industrial, automotive and architectural coatings.

Fastogen Super - High performance pigments for industrial and automotive coatings.

Indofast - High performance carbazole violet pigments for industrial and architectural coatings.

Palomar - High performance tetrachlor phthalocyanine pigments for automotive coatings.

Perrindo - High performance perylene pigments for automotive coatings.

Predisol - A range of highly pigmented (30 - 60%) dispersions in CAB for high performance low solids solvent borne coatings. Full dispersion is achieved via high speed cavitation mixing.

Quindo - High performance quinacridone pigments for automotive, industrial and architectural coatings.

SPLENDAL - Thin non-leafing aluminum platelet provided via physical vapor deposition.

Sunbrite - Classical pigments for architectural and industrial coatings.

Sunfast - Phthalocyanine pigments for industrial, automotive and architectural coatings.

SunGEM XST - High sparkle pearlescent glass flake pigments.

SunMICA - Natural untreated pearlescent mica pigments.

SunMICA EXTERIOR XC & XR - Exterior treated natural pearlescent mica based pigments.

SunMICA LUX - Synthetic mica pearlescent pigments.

Sunplast - Free-flowing, low dusting, micro granular dry color.

Sunsperse ECO/ECO+ - A range of APEO, VOC and resin free aqueous pigment dispersions, developed for coloration of waterborne emulsion paint for the In-Plant production of ready mixed colors.

Technical Data and Physical Properties

Specific Surface Area:

Determined by the BET method of nitrogen gas absorption at liquid nitrogen temperature (expressed as m²/g).

Heat Fastness:

Determined from a drawdown of an acrylic enamel coating at 1/3 International Standard Depth. The recorded values are the maximum temperature at which the pigment remains substantially unaltered in shade after exposure to the following baking conditions: 120°C for 30 minutes, 150°C for 15 minutes, 180°C for 10 minutes and 200+°C for 8 minutes versus a control at 60°C for 30 minutes. NR signifies that the product is not recommended for baking enamels.

Chemical and Solvent Resistance:

Acid, Alkali and Solvent - The degree of bleed noted after 1 gram of pigment, enclosed in a Whatman filter paper (#2), is suspended in 25ml of test solvent for 16 hours at room temperature in a stoppered test tube. Color change is expressed on a 1-5 Gray Scale, where 1 indicates poor resistance and 5 represents no change.

Chemical Resistance Scale:

1. Poor
2. Below Average
3. Average
4. Above Average
5. Excellent

Weather Fastness:

The amount of shade change seen in coatings that were exposed for up to 24 months at a 5° angle facing south at a commercial weathering site in Florida. Shade change was assessed using a 1-5 Gray Scale, where 1 indicates severe change and 5 represents no change. The higher performance pigments were exposed in an acrylic/MF baking enamel.

Weather Fastness Scale:

1. Poor
2. Below Average
3. Average
4. Above Average
5. Excellent

Light Fastness:

Determined from coatings exposed to light in a xenon arc test chamber until a Gray Scale 3 level of color fade/change is reached. The light fastness rating (see below) is derived by assessment against the fade of Blue Wool standards exposed at the same time.

Light Fastness Scale:

1. Poor
2. Moderate
3. Below Average
4. Average
5. Above Average
6. Very Good
7. Excellent
8. Outstanding

Relative Strength:

Utilizes the concept of International Standard Depth and is expressed as the amount of pigment required, with 100 parts titanium dioxide, to achieve a 1/3 and 1/25 Standard Depth; the lower the value, the stronger the pigment.

Delivering Quality, Innovation and Service

The employees at Sun Chemical Performance Pigments are personally committed to being the customers' partner of choice. There is never any question as to the priorities in executing each day's business because the employees make every operating decision by implementing the following four key initiatives:

Safety:

Putting safety first in everything the employee does.

People Development:

Continually improving the skills of Sun Chemical's people.

Customer Value System:

Creating value and satisfaction for our customers through profitable and sustainable growth, continuous improvement of our processes, and by supplying products that consistently meet customers' specifications.

Productivity and Six Sigma:


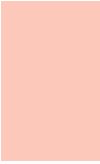












Continually improving the effectiveness of the Quality Management System through ISO 9001 Registration, Productivity Initiatives and Six Sigma.

4 Organic Pigments for Coatings

Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	Applications					Chemical Resistance			Relative Strength		Light Fastness			Weather Fastness							
						Automotive	Architectural/Deco	General Industrial	Powder	Coil	Specific Gravity (g/cc)	Surface Area (m ² /g)	Heat Fastness (°C)	Acid	Alkali	Butyl Acetate	Methyl Ethyl Ketone	Xylene	1/3 ISD	1/25 ISD	MT	1/3 ISD	1/25 ISD	1/3 ISD	1/25 ISD	
		Yellow 3	Sunbrite	272-3119	General purpose, very green shade	X					1.77	15	NR	4-5	4-5	3	2-3	3-4	99.80	6.25	7	6-7	5	4	3-4	
			Sunperse ECO +	YZD-0300 ^N	Aqueous dispersion, surfactant based, humectant	X					1.77	15	NR	4-5	4-5	3	2-3	3-4	99.80	6.25	7	6-7	5	4	3-4	
		Yellow 42	Sunperse ECO	YVD-T042 ^E	Transparent, Aqueous dispersion, surfactant based	X	X				2	NA	200+	NT	NT	5	5	5	NA	NA	8	8	8	5	5	
		Yellow 65	Sunbrite	272-0065	General purpose, opaque; universal tinters	X					1.42	13	120	4	4	3-4	3	3	73.10	2.95	7	6-7	6-7	4	3-4	
				272-TF65	Traffic paint		X				1.50	11	130	4	4	4	3	3	78.00	3.10	7	6-7	6-7	3-4	3-4	
		Yellow 74	Sunbrite	272-0559	Semi transparent, glycol stable	X					1.52	15	120	4	4	3	3-4	3-4	30.60	2.65	6-7	6	5	4	3-4	
				272-0584	Universal tinters, general purpose, opaque	X					1.4	15	120	4	4	3	3-4	3-4	30.60	2.65	6-7	6	5	4	3-4	
				272-4608	General purpose, opaque	X					1.52	15	120	4	4	3	3-4	3-4	30.6	2.65	6-7	6	5	4	3-4	
				272-4615	High strength, general purpose, opaque, glycol stable	X					1.48	15	120	4	4	3	3-4	3-4	30.60	2.65	6-7	6	5	4	3-4	
				Sunperse ECO	YVD-7402 ^E	Aqueous dispersion, surfactant based, humectant		X				1.20	15	120	4	4	3	3-4	3-4	30.60	2.65	7-8	7	6-7	4	3-4
				Sunperse ECO +	YZD-7402 ^N			X				1.20	15	120	4	4	3	3-4	3-4	30.60	2.65	7-8	7	6-7	4	3-4
		Yellow 110	Fanchon	279-8110	Isoindoline - Yellow, Opaque	X	X	X	X	X	2.04	38	200+	5	5	5	4	5	66.98	2.65	8	8	7	NT	NT	
			Predisol CAB	PYA-0642	Pigment predispersed in CAB resin	X		X			2.04	38	200+	5	5	5	4	5	66.98	2.65	8	7-8	7	NT	NT	
		Yellow 139	Fanchon	279-0139	Isoindoline				X		1.65	57	200+	5	4	5	4	5	63.30	4.66	7	6-7	6-7	4	3-4	
				279-5700	Semi-opaque, isoindoline	X	X	X	X	X	1.41	30	200+	5	5	3	4	4	49.70	2.00	8	7	7	5	NT	
				279-5740	Isoindoline, opaque	X	X	X	X	X	1.41	30	200+	5	5	3	4	4	66.70	2.20	8	7	7	5	NT	
		Yellow 150	Fanchon	279-3150	Transparent Ni Azo Yellow	X	X	X	X	X	1.84	45	200+	3	5	5	5	5	52.61	3.75	8	7-8	7-8	5	5	
		Yellow 151	Fanchon	271-5151 ^N	Benzimidazolone; Opaque, brilliant green shade	X		X	X	X	1.59	15	200+	5	5	5	5	5	50.48	3.67	8	7-8	7	4-5	4	

^E = Europe Only








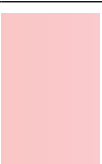






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Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	Applications					Chemical Resistance			Relative Strength		Light Fastness			Weather Fastness							
						Automotive	Architectural/Deco	General Industrial	Powder	Coil	Specific Gravity (g/cc)	Surface Area (m ² /g)	Heat Fastness (°C)	Acid	Alkali	Butyl Acetate	Methyl Ethyl Ketone	Xylene	1/3 ISD	1/25 ISD	MT	1/3 ISD	1/25 ISD	1/3 ISD	1/25 ISD	
		Orange 5	Sunbrite	276-2517	General purpose		X	X			1.63	15	120	5	5	2	2	2	55.60	4.30	6	5	4	2	2	
			Sunsperse ECO	OVD-0500 ^E	Aqueous dispersion, surfactant based, humectant		X	X			1.2	15	120	5	5	2	2	2	55.60	4.30	8	7-8	6	2	2	
			Sunsperse ECO +	OZD-0500 ^N			X	X			1.2	15	120	5	5	2	2	2	55.60	4.30	7	6-7	6	2	2	
		Orange 13	Sunbrite	276-2384 ^N	Pyrazolone, Semi Opaque, Interior			X	X		1.43	44	180	4-5	4-5	3	2	3	35.70	2.25	7	6-7	6	1-2	1	
		Orange 36	Fanchon	271-5136	Benzimidazolone; Red Shade, APEO free	X	X	X	X	X	1.4	15	200+	5	5	4-5	5	5	NT	NT	8	8	7	4-5	NT	
		Orange 43	Sunbrite	276-1430	Clean orange shade		X	X	X		1.60	40	200+	5	5	5	5	5	58.52	5.52	5	5	7	3	3	
		Red 3	Sunbrite	216-3300 ^N	Mid-shade Toluidine red, full evaluation recommended; exterior masstone only		X	X			1.42	9	NR	4-5	4-5	3	2	1-2	38.90	3.15	6-7	4	3	1-2	1	
				216-4170 ^E	Light yellow Toluidine red, full evaluation recommended; exterior masstone only		X	X			1.44	1.4	NR	4-5	4-5	1	1	2	34.96	2.89	6-7	4	3	1-2	1	
				216-6142 ^N	Bright yellow Toluidine red, full evaluation recommended; exterior masstone only		X	X			1.43	13	NR	4-5	4-5	3	2	2	33.30	2.75	6-7	4	3	1-2	1	
		Red 19	Quindo	228-0022 ^E	Quinacridone; Transparent yellow shade			X	X		1.49	62	200+	5	5	5	4	5	43.30	2.55	7-8	7	7	4	3-4	
				228-0044	Semi opaque grade		X	X			1.46	36	200+	5	5	5	4	5	46.20	3.20	7-8	7	7	4	3-4	
				228-0500	Clean red magenta shade, transparent	X		X	X			1.53	24	200+	5	5	5	5	5	76.70	5.00	7-8	7	7	4-5	4
				228-6700	General purpose, transparent			X	X			1.77	69	200+	5	5	4	5	5	46.30	2.67	7-8	7	7	4	4
				228-6713	Clean red magenta shade, transparent	X						1.49	79	200+	5	5	4	5	5	41.20	2.55	7-8	7	7	4	4
		Red 48:4	Sunbrite	234-6485 ^N	Non-resinated, yellow shade; good light fastness and bleed resistance				X		1.87	27	180	3	2	3	4	4-5	38.60	2.85	5-6	5-6	5	3	1-2	

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6 Organic Pigments for Coatings

Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	Applications					Chemical Resistance			Relative Strength		Light Fastness			Weather Fastness							
						Automotive	Architectural/Deco	General Industrial	Powder	Coil	Specific Gravity (g/cc)	Surface Area (m ² /g)	Heat Fastness (°C)	Acid	Alkali	Butyl Acetate	Methyl Ethyl Ketone	Xylene	1/3 ISD	1/25 ISD	MT	1/3 ISD	1/25 ISD	1/3 ISD	1/25 ISD	
		Red 49:2	Sunbrite	211-4620 ^N	Blue shade red; interior industrial coatings; good baking stability			X			1.52	51	200+	3	2-3	5	1	3	29.60	1.85	4-5	2	2	1	1	
		Red 63:1	Sunbrite	224-0002 ^N	Bon Maroon, extra blue shade; economical SB finishes			X			1.53	42	180	5	2-3	5	4	4-5	36.70	2.55	5	4	3	2-2	2	
		Red 101	Predisol CAB	PRA-0603	Pigment predispersed in CAB resin	X		X			1.2	NA	200+	NT	NT	5	5	5	NA	NA	8	8	8	5	5	
			Sunsperse ECO	RVD-1010 ^E	Humectant, aqueous dispersion, surfactant based		X	X				2	NA	200+	NT	NT	5	5	5	NA	NA	8	8	8	5	5
				RVD-1011 ^E	Transparent, aqueous dispersion, surfactant based		X	X				2	NA	200+	NT	NT	5	5	5	NA	NA	8	8	8	5	5
		Red 112	Sunbrite	235-0112	General purpose		X	X			1.40	15	200+	5	5	4	4	4-5	NA	NA	7	6	5	NT	NT	
			Sunsperse ECO	RVD-1120 ^E	Aqueous dispersion, surfactant based, humectant		X	X				1.1	15	200+	5	5	4	4	4-5	NA	NA	7-8	7	6	NT	NT
				RZD-1120 ^N			X	X				1.1	15	200+	5	5	4	4	4-5	NA	NA	7-8	7	6	NT	NT
		Red 170	Sunbrite	235-7070	Opaque, yellow shade red, naphthol AS			X	X	X	1.40	15	200+	5	5	5	4	4-5	40.30	2.70	7	6	5	3-4	2-3	
				235-7170	High strength, blue shade red, naphthol AS			X	X	X	1.35	21	200+	5	5	5	4	4-5	40.3	2.7	7	6	5	3-4	2-3	
		Red 177	Predisol CAB	PRA-2651	Pigment predispersed in CAB resin	X		X			1.1	63	200+	5	5	5	3-4	5	NA	NA	7-8	7-8		8	NA	
			Sunbrite	227-0177	Opaque, general purpose anthraquinone		X	X	X	X	X	1.67	63	200+	5	5	5	3-4	5	NA	NA	7	7	7	8	NA
				227-5177	Transparent, general purpose anthraquinone		X	X	X	X	X	1.54	108	200+	5	5	5	4	5	NA	NA	7	7	7	4	NA
		Red 188	Sunbrite	235-0188	Opaque, yellow shade		X				1.56	21	200+	5	5	5	2	3-4	62.50	4.00	7-8	7	7	4-5	2-3	

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Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	Applications					Chemical Resistance			Relative Strength		Light Fastness			Weather Fastness							
						Automotive	Architectural/Deco	General Industrial	Powder	Coil	Specific Gravity (g/cc)	Surface Area (m ² /g)	Heat Fastness (°C)	Acid	Alkali	Butyl Acetate	Methyl Ethyl Ketone	Xylene	1/3 ISD	1/25 ISD	MT	1/3 ISD	1/25 ISD	1/3 ISD	1/25 ISD	
		Red 202	Quindo	228-6725	Ultra opaque chromatic red, excellent durability	X		X	X		1.67	14	200+	5	5	5	5	5	86.70	8.00	7-8	8	7-8	5	5	
				228-6843	Transparent	X						1.72	70	200+	5	4	5	4	5	43.30	2.90	7-8	7	7	4-5	4
				228-6853	Quinacridone; Semi opaque, good rheology			X				1.60	70	200+	5	4	5	4	5	40.80	2.60	7-8	7	7	4-5	4
				228-6873	Transparent, good rheology	X		X				1.71	69	200+	5	5	4-5	2-3	5	42.60	2.67	7-8	7	7	4-5	4
		Red 209	Fastogen	228-6736 ^N	Transparent, yellow shade	X	X	X	X	X	1.56	66	200+	5	5	5	4-5	5	48.81	2.67	7	7	6	4-5	4	
		Red 224	Perrindo	229-6420	Transparent, high chroma; solvent only, good rheology	X					1.67	39	200+	5	3	5	5	5	31.70	1.65	8	7-8	7	4	3	
		Red 254	Fastogen	226-0200+	DPP; Opaque, excellent weatherfastness	X	X	X	X	X	1.84	24	200+	5	5	5	5	5	21.60	1.74	8	7	7	4-5	4	
			Predisol	PRA-2653	Pigment predispersed in CAB resin	X		X				1.1	24	200+	5	5	5	5	5	13.00	1.05	8	7-8	6	4	3-4
			Sunbrite	226-6254	High strength, opaque	X	X	X	X			1.84	24	200+	5	5	5	5	5	13.00	1.05	7	6-7	6	4	3-4
			Sunperse ECO	RVD-2540 ^E	Aqueous dispersion, surfactant based, humectant		X	X				1.2	24	200+	5	5	5	5	5	21.60	1.74	8	7-8	7-8	4-5	4
			Sunperse ECO +	RZD-2540 ^N		X	X				1.2	24	200+	5	5	5	5	5	21.60	1.74	8	7-8	7-8	4-5	4	

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8 Organic Pigments for Coatings

Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	Applications					Chemical Resistance					Relative Strength		Light Fastness			Weather Fastness								
						Automotive	Architectural/Deco	General Industrial	Powder	Coil	Specific Gravity (g/cc)	Surface Area (m ² /g)	Heat Fastness (°C)	Acid	Alkali	Butyl Acetate	Methyl Ethyl Ketone	Xylene	1/3 ISD	1/25 ISD	MT	1/3 ISD	1/25 ISD	1/3 ISD	1/25 ISD				
Magenta 122			Fastogen	228-CBR4 ^E	Quinacridone		X	X	X			1.50	NA	200+	5	5	5	5	5	NA	NA	8	NA	NA	NA	NA			
				228-MRTS	Especially for colorants																								
			Predisol CAB	PPA-0663	Pigment predispersed in CAB resin	X		X																					
				228-0013 ^E	General purpose																								
			Quindo	228-0066	Semi opaque, general purpose	X	X	X	X	X																			
				228-6828	Trace bluer than 228-0066, general purpose		X	X																					
				228-6832	Transparent, yellow shade clean undertone	X																							
				228-6883	Good rheology, semi opaque	X																							
			Sunplast	228-0131	Bright pink shade																								
				228-8655	Easy dispersible; granulated / low dusting	X	X	X	X	X																			
			Sunperse ECO	QVD-1220 ^E	Aqueous dispersion, surfactant based, humectant		X	X																					
Sunperse ECO +	QZD-1220 ^N		X	X																									
Maroon 179			Predisol CAB	PMA-0627	Pigment predispersed in CAB resin	X																							
				229-6436	Yellow shade, general purpose, transparent	X																							
			Perrindo	229-6438	Clean yellow shade, strong; waterborne, transparent	X																							
				229-6440	Easily dispersible, yellow shade	X	X	X	X	X																			
				229-6442		X	X	X	X	X																			
				229-8765	Ultra transparent, yellow shade; easily dispersible, waterborne	X																							
				229-8801	Blue shade, transparent	X																							
				229-8828	Slightly more opaque, easy dispersing for powder coatings					X																			

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Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	Applications					Chemical Resistance			Relative Strength		Light Fastness			Weather Fastness							
						Automotive	Architectural/Deco	General Industrial	Powder	Coil	Specific Gravity (g/cc)	Surface Area (m ² /g)	Heat Fastness (°C)	Acid	Alkali	Butyl Acetate	Methyl Ethyl Ketone	Xylene	1/3 ISD	1/25 ISD	MT	1/3 ISD	1/25 ISD	1/3 ISD	1/25 ISD	
		Violet 19	Sunplast G	228-8673	Easy dispersible; granulated / low dusting				X		1.49	57	200+	5	5	5	4	5	53.89	3.33	7-8	7	7	4	4	
			Quindo	228-1158	Red shade, general purpose		X	X	X	X		1.53	65	200+	5	5	5	4-5	5	45.00	3.00	7-8	7	7	4-5	4
		Violet 23		228-6902	General purpose	X	X	X	X		1.47	58	200+	5	5	5	4-5	5	35.00	2.50	7-8	7	7	4-5	4	
				246-0505	For powder coatings				X			1.50	82	200+	5	5	5	4	5	14.00	0.85	8	7	7	4	4
			Indofast	246-1670 ^N	Intense red shade, general purpose	X	X	X	X	X	X	1.44	77	200+	5	5	5	4-5	5	13.00	0.90	8	7	7	4	4
				246-1674 ^E	General purpose	X	X	X	X	X	X	1.52	41	200+	5	5	5	4	4-5	13.00	0.90	8	7	7	4	4
			Predisol CAB	PVA-2683	Pigment predispersed in CAB resin	X		X				1.1	41	200+	5	5	5	4	4-5	13.00	0.90	7-8	7-8	7	4	4
		Violet 29	Perrindo	229-4050	Transparent	X	X	X	X	X	1.61	50	200+	5	5	5	4	5	18.00	1.25	7-8	7	7	4-5	4	
			Violet 55	Quindo	228-6782	Quinacridone, extreme blue shade, transparent, excellent light fastness	X					1.67	71	200+	5	5	5	5	5	30.33	2.10	7-8	7	7	4-5	4
	228-6811	Red shade V55, good alternative to V19, transparent, excellent light fastness			X	X	X	X	X	X	1.50	NT	200+	5	5	5	5	5	10.71	1.12	8	7-8	7-8	5	5	
		Blue 60	Palomar	260-8818	Transparent, excellent light fastness	X			X		1.51	NT	204	5	5	5	4	5	10.28	1.08	8	8	7	5	4-5	
				260-2825	Ultra red shade Blue 60	X						1.51	NT	200+	5	5	5	5	5	30.33	2.10	7-8	7	7	4-5	4
			Predisol CAB	PBA-0683	Pigment predispersed in CAB resin	X		X				1.1	NT	204	5	5	5	4	5	10.28	1.08	8	7-8		5	4-5

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10 Organic Pigments for Coatings

Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	Applications					Chemical Resistance					Relative Strength		Light Fastness			Weather Fastness				
						Automotive	Architectural/Deco	General Industrial	Powder	Coil	Specific Gravity (g/cc)	Surface Area (m ² /g)	Heat Fastness (°C)	Acid	Alkali	Butyl Acetate	Methyl Ethyl Ketone	Xylene	1/3 ISD	1/25 ISD	MT	1/3 ISD	1/25 ISD	1/3 ISD	1/25 ISD
		Blue 15:1	Sunfast	248-0061	Medium shade, easy dispersable		X		X		1.70	37	200+	4-5	4-5	5	4-5	5	28.92	1.81	8	7	7	5	4-5
				248-3720	Red shade		X		X		1.6	NT	200+	5	5	5	3	3	7	7	8	NT	NT	NT	NT
				248-4710	Monochlor, neutral flop	X					1.65	75	200+	5	5	5	3	5	29.24	1.61	8	7	7	5	5
			Palomar	248-4806	For low solids, tetrachlor, neutral flop	X					1.73	76	200+	5	5	5	5	5	36.60	1.70	8	8	8	5	5
				248-4816	Greener than 4806, good rheology, neutral flop	X					1.78	71	200+	5	5	5	5	5	29.00	1.85	8	8	8	5	5
				248-4828	For waterborne, neutral flop	X					1.66	81	200+	5	5	5	5	5	28.60	1.50	8	8	8	5	5
		Blue 15:2	Predisol CAB	PBA-0628	Pigment predispersed in CAB resin	X		X			1.1	74	200+	5	5	5	5	4	23.00	1.30	8	8	7	5	4-5
				248-0615	General purpose, non flocculating	X				1.61	69	200+	5	5	5	4-5	4	18.30	1.00	8	7	7	5	4-5	
			Sunfast	248-3650	High chroma and strength; good rheology	X					1.75	74	200+	5	5	5	5	4	23.00	1.30	8	7	7	5	4-5
				248-7158	General purpose, non flocculating		X	X	X	X	1.67	57	200+	4-5	4-5	5	5	5	24.17	1.90	8	7	7	5	4-5
		Blue 15:3	Fastogen	249-A80C ^E	General purpose	X	X	X			1.60	69	200+	5	5	5	5	5	24.20	1.10	8	7	7	5	4-5
				249-9813 ^E	General purpose, slightly greener than A80C	X	X	X		1.69	62	200+	4-5	4-5	5	5	4-5	17.50	1.20	8	7	7	4	4-5	
			Sunsperse ECO	BVD-1530 ^E	Aqueous dispersion, surfactant based, humectant	X	X				1.2	69	200+	5	5	5	5	5	24.20	1.10	8	8	7-8	5	4-5
				BZD-1530 ^N		X	X				1.2	69	200+	5	5	5	5	5	24.20	1.10	8	8	7-8	5	4-5
		Blue 15:4	Fastogen	249-485K ^E	General purpose, non flocculating	X	X	X	X		1.5	NA	200+	5	5	5	5	4	NA	NA	7	NA	NA	NA	NA
				249-5452 ^E		X	X	X	X	1.6	NA	200+	5	4-5	5	4-5	5	NA	NA	7	7-8	NA	NA	NA	
			Predisol CAB	PBA-2660	Pigment predispersed in CAB resin	X		X		1.1	NA	200+	5	4-5	5	4-5	5	NA	NA	8	7-8	NA	NA	NA	
			Sunfast	249-0592 ^N	General purpose, non flocculating	X	X	X			1.63	77	200+	4-5	4-5	5	5	5	23.30	1.10	8	7	7	5	4-5
				249-3450 ^N	Transparent for automotive	X			X		1.61	59	200+	4-5	4-5	5	5	5	25.00	1.10	8	7	7	4	4-5
		Turquoise	Palomar	264-4900	Transparent turquoise, deep flop	X					1.87	88	200+	5	4	5	5	5	36.70	1.55	8	8	8	5	5


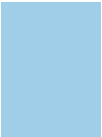




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Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	Applications					Chemical Resistance			Relative Strength		Light Fastness			Weather Fastness							
						Automotive	Architectural/Deco	General Industrial	Powder	Coil	Specific Gravity (g/cc)	Surface Area (m ² /g)	Heat Fastness (°C)	Acid	Alkali	Butyl Acetate	Methyl Ethyl Ketone	Xylene	1/3 ISD	1/25 ISD	MT	1/3 ISD	1/25 ISD	1/3 ISD	1/25 ISD	
		Green 7	Predisol CAB	PGA-2685	Pigment predispersed in CAB resin	X		X			1.1	51	200+	5	5	5	5	5	37.00	1.67	8	7-8	7	5	5	
				264-0414 ^N	General purpose, green shade; not recommended for solvent	X						2.11	62	200+	5	5	5	5	5	28.30	1.48	7-8	7	7	5	5
				264-7009 ^N	Blue shade, general purpose		X	X				2.24	40	5	5	5	5	5	5	na	na	8	7	7	5	5
				264-7080 ^N	Yellow shade		X					2.24	31	200+	5	5	5	5	5	33.80	1.60	7-8	7	7	5	5
				Sunfast	264-7500	Mid shade, economy grade		X	X		X	1.80	37	200+	4-5	5	5	5	5	35.80	1.59	7-8	7	7	5	5
					264-7600	Mid shade, general purpose	X	X	X	X	X	1.94	51	200+	5	5	5	5	5	37.00	1.67	7-8	7	7	5	5
					264-770F	Yellow shade, general purpose				X		2.00	44	200+	5	5	5	5	5	NA	NA	7-8	7	7	NA	NA
					264-8142 ^N	Blue shade, high chroma		X	X	X	X	2.11	62	200+	5	5	5	5	5	28.30	1.48	7-8	7	7	5	5
					264-8735 ^N	Yellow shade, high chroma					X	2.24	63	200+	5	5	5	5	5	31.00	1.40	8	7	7	5	5
					Sunperse ECO	GVD-0700 ^E	Aqueous dispersion, surfactant based, humectant		X	X			1.4	51	200+	5	5	5	5	5	37.00	1.67	8	8	8	5
		Sunperse ECO +	GZD-0700 ^N		X	X				1.4	51	200+	5	5	5	5	5	37.00	1.67	8	8	8	5	4-5		
		Green 36	Predisol	PGA-0678	Pigment predispersed in CAB resin	X		X			1.1	28	200+	5	5	5	5	5	33.30	2.40	7-8	7-8		5	5	
				Sunfast	264-7036	Clean yellow shade	X			X		2.50	28	200+	5	5	5	5	5	33.30	2.40	8	7	7	5	5
		Black 7	Predisol CAB	PLA-0624	High jet, good compatibility	X		X			1.2	NA	200+	5	5	5	5	5	NA	NA	8	8	8	5	5	
				PLA-2603	Tinting black	X		X				1.2	NA	200+	5	5	5	5	5	NA	NA	8	8	8	5	5
				PLA-2604		X		X				1.2	NA	200+	5	5	5	5	5	NA	NA	8	8	8	5	5
				PLA-2605	High jet black	X		X				1.2	NA	200+	5	5	5	5	5	NA	NA	8	8	8	5	5
				PLA-2608		X		X				1.2	NA	200+	5	5	5	5	5	NA	NA	8	8	8	5	5
				PLA-2609	Blue shade, good compatibility	X		X				1.2	NA	200+	5	5	5	5	5	NA	NA	8	8	8	5	5
				PLA-3801	High jet, for plastic coatings	X		X				1.2	NA	200+	5	5	5	5	5	NA	NA	8	8	8	5	5
			Sunperse ECO	LVD-0700 ^E	Aqueous dispersion, surfactant based, humectant		X	X				1.2	NA	200+	5	5	5	5	5	NA	NA	8	8	8	5	5
			Sunperse ECO +	LZD-0700 ^N			X	X				1.2	NA	200+	5	5	5	5	5	NA	NA	8	8	8	5	5

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Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	Applications					Chemical Resistance			Relative Strength		Light Fastness			Weather Fastness						
						Automotive	Architectural/Deco	General Industrial	Powder	Coil	Specific Gravity (g/cc)	Surface Area (m ² /g)	Heat Fastness (°C)	Acid	Alkali	Butyl Acetate	Methyl Ethyl Ketone	Xylene	1/3 ISD	1/25 ISD	MT	1/3 ISD	1/25 ISD	1/3 ISD	1/25 ISD
		Blue 15:2	Sunfast	248-4773	Shear stable for coil coating, good flocculation stability				X		1.41	85	200+	5	5	5	4	4	34.20	2.00	8	7	7	5	4-5
		Violet 23	Indofast	PVL-4044	Shear stable for coil coating, good flocculation stability				X		1.58	43	200+	5	5	5	5	5	63.00	4.14	8	7	7	4	4
		Black 7	Carbon	PLL-1088	Shear stable for coil coating, good flocculation stability				X		1.56	80	200+	5	5	5	5	5	38.75	4.01	8	8	8	5	5

A man and a young child are shown from the side, painting a wall. The man is holding a brush that has a small green tree on its head, and they are both looking at the wall. The wall is being painted a vibrant green color. In the foreground, there are several overlapping colored squares: a yellow one, a red one, a brown one, and a green one. The overall scene is bright and positive, suggesting a creative and collaborative process.

**We can turn your
formulation problems
into solutions.**

Sun Chemical has the know-how and resources to help you solve your coatings challenges and much more. Sun Chemical Performance Pigments offers the industry's broadest portfolio of effects, high performance, classical pigments and preparations. Sun Chemical Advanced Materials brings DIC's diverse line of acrylic, polyester, PUD and epoxy resins and additives. Together, we have the products and expertise to help you formulate a coating for your specific needs. Key ingredients that work together to create superior architectural, automotive and industrial coatings.

The highest quality,
global supplier for
metallic effects.



Benda-Lutz Provides Brilliant Results & Uncompromised Details

Brilliant results are usually the sum of perfect details. Since 1910, Benda-Lutz has been the brand synonymous with the highest quality ingredients for powder, industrial, coil, exterior architectural and automotive coatings.

We tailor solutions. We nurture ideas. And we bring the latest technology to market. With 100 years of experience, and a depth of resources from which to draw, we have the people, knowledge and products to make any project a success. Every hour of every day, we are working to deliver quality, service and innovation to our clients worldwide.

Benda-Lutz Brands	Leafing	Non-leafing	METALLIC	MAXAL	SPLENDAL	DEPUVAL	ZINC	GOLDBRONZE
Type of Metal	Al	Al	Al	Al	Al	Al	Zn	Cu/Zn Alloy
Delivery Form	Paste	Paste	Paste	Paste	Dispersion	Non-dusting Powder	Paste / Powder	Paste / Powder
Applications								
Aerosols	x	x	x	x	x	x	x	x
Automotive OEM				x	x		x	
Automotive Refinish				x				
Automotive Trim				x	x			
Can Coatings		x	x					x
Chrome Effects	x				x			
Coil Coatings		x	x	x	x			x
Corrosion Protection	x	x				x	x	
Decorative Paints		x	x	x	x			x
Hammer Finishes		x	x					x
Heat Resistant Paints	x	x	x			x	x	
Marine Coatings	x	x				x		
Roof Coatings	x					x		

Benda-Lutz Leafing:

High performance leafing grade aluminium pastes that offer extraordinary metallic brilliance and opacity.

Benda-Lutz Non-Leafing:

Highly suitable for tinted paint colors, hammer-tone, effects and general industrial coatings

Benda-Lutz METALLIC:

Non-leafing aluminum pastes giving a delicate combination of sparkle, brilliance and opacity.

Benda-Lutz STABIL SI

Inorganic encapsulated aluminum flakes to provide long term durability and stain resistance.

Benda-Lutz MAXAL:

Premium non-leafing aluminium pastes with polished flake surfaces with narrow particle size distributions.

Benda-Lutz MAXAL Si

Inorganic encapsulated aluminum flakes to provide brilliance, long term durability and stain resistance.

Benda-Lutz MAXAL EC

Encapsulated aluminum flakes providing superior resistance to acid and alkali staining for durable architectural finishes.

Benda-Lutz SPLENDAL:

Microscopically thin non-leafing aluminium platelet suspensions produced via physicalvapor deposition (PVD) provide the highest level of brilliance and coverage.

Benda-Lutz DEPUVAL:

A non-dusting preparation based on leafing aluminium powder. They are safer to incorporate than conventional powders. It is solvent-free and is universally compatible.

Benda-Lutz ZINC:

Flake powders and pastes provide outstanding corrosion protection at relatively low concentrations and low film thickness.

Benda-Lutz GOLDBRONZE:

Premium gold effect pigments made from copper or copperzinc alloys. These flake pigments create unique decorative gold, metallic bronze and copper effects.

Benda-Lutz Brands	STABIL SI 76XX	STABIL SI 66XX	MAXAL SI 76XXX	MAXAL SI 66XXX	MAXAL EC	SPLENDAL 66XX	GOLDBRONZE G77XX
Type of Metal	Encapsulated Al	Encapsulated Al	Encapsulated Al	Encapsulated Al	Encapsulated Al	Al passivated	Cu/Zn Alloy stabilized
Delivery Form	Powder	Paste	Powder	Paste	Paste / Powder	Dispersion	Powder
Applications							
Aerosols water based		x		x		x	x
Automotive Trim water based				x		x	
Can Coatings water based		x					x
Coil Coatings water based		x		x		x	
Decorative Paints water based	x	x	x	x		x	x
High Chemical Resistance Coatings					x		
Heat Resistant Paints water based		x					
Industrial Coatings water based	x	x	x	x			x
Liquid Metal Effects water based						x	
UV Coatings	x		x				

Add eye-catching shimmer to your products for more appeal.

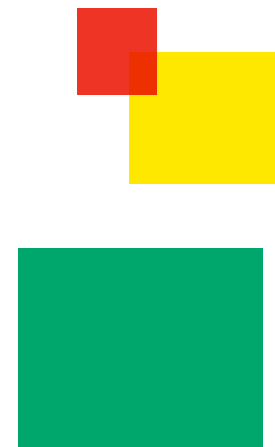


Pearlescent Effect Pigments

SunChemical pearlescent effect pigments add depth, shimmer, sparkle and provide exceptional styling possibilities. This line offers outstanding lightfastness, humidity resistance, batch-to-batch color consistency, and superior intercoat adhesion in most applications. Our exterior grades also deliver excellent weather stability.

SunChemical pearlescent pigments can deliver a variety of striking effects, from the silky satin of SunMICA to the brilliant sparkle effect of SunGEM XST. Our Benda-Lutz family of metallic pigments enables designers to blend pearlescent effects with silver, copper, bronze and gold effects as well. Our pearlescent pigments are compatible with both solvent and waterborne coatings, powder and coil coatings, 2K isocyanates, alkyds, epoxy, UV curables and stuccos to name a few.

Effect Pigmet Brands	SunMICA	SunMICA EXTERIOR	SunMICA LUX	SunGEM XST
Type	natural mica	treated natrual mica	synthetic mica	glass flake
Applications				
Aerosols	x	x	x	
Architectural/Deco	x		x	x
Automotive OEM		x		
Automotive Refinish		x		x
Automotive Trim		x		x
Coil		x		
Consumer Electronics	x		x	x
Decorative	x		x	x
Exterior Architectural		x		
High temperature coatings	x		x	x
Leather Coatings	x		x	x
Powder coatings	x	x	x	x



SunMICA

SunMICA special effect pigments consist of thin natural mica coated with optical layers of titanium dioxide and/or iron oxide. Through precise control of light reflection and refraction, SunMICA offers pure silver-white, interference color, gold and metallic luster effects. SunMICA is available in a range of sizes.

SunMICA EXTERIOR

SunMICA EXTERIOR pearlescent effects invigorate designs with a wide range of luster, glitter and shimmer effects. Available in two exterior treatment technologies, SunMICA EXTERIOR XC and XR are crafted to meet the highest levels of durability requirements for exterior coatings. SunMICA EXTERIOR delivers a limitless array of styling possibilities for automotive, power coating, exterior architectural and other outdoor applications.

SunMICA LUX

Prestige brands deserve the premium quality and look that can only be achieved with SunMICA LUX. Utilizing ultra smooth, optically pure synthetic mica flakes, SunMICA LUX have the purest, cleanest whites and most lustrous interference colors. This unique material does not contain any iron or heavy metal pigments that can detract from the premium appearance. SunMICA LUX delivers the market's best pearlescent white effects.

SunGEM XST

Give your products unmistakable sparkle effect of SunGEM XST. These premium effect pigments are based on ultra smooth glass platelets coating with titanium dioxide. They are exceptionally transparent making them ideal for use in combination with absorption pigments to provide dimensional sparkle to your most chromatic color formulations. Interference grades accentuate the contours and shape of unique designs that are unmistakable. Take your products to the highest level of quality and appearance with SunGEM XST.



200 years of coatings and resins expertise.



Advanced Materials, Additives, Resins & Coatings

With over a century of polymer expertise, Sun Chemical and its parent company, the DIC Corporation, have combined their innovative coatings technologies with products available in solventborne, waterborne and solvent free chemistries. We have a solution for your most complex requirements. Backed by Sun Chemical's local support and technical service and DIC resin expertise, our products enhance the performance, durability and efficiency of coatings in a broad variety of applications.

Brands	BURNOCK PH	HYDRAN	PATELACOL	DIC UV Curable	WATERSOL	CERANATE	DIC Acrylic	FINEPLUS	BURNOCK AC	Megaface	Defensa
Type	Phenolic Resins	PUD	Acrylic Resins	Acrylic Resins	Acrylic Resins	Acrylic Resins	Acrylic Resins	Acrylic Resins	Acrylic Resins	Fluorochemical Additive	Fluorochemical Coating
Applications											
Architectural/Deco		x			x	x	x			x	x
Industrial Coatings	x	x		x	x	x	x		x	x	x
Automotive Refinish/Trim				x			x			x	x
Automotive Interior		x		x			x	x	x		
Coil		x	x	x						x	
Consumer Electronics	x			x			x			x	x
Decorative				x	x		x		x	x	
Exterior Architectural					x	x			x	x	x
High Temperature Coatings	x		x			x	x		x	x	
Leather Coatings		x					x			x	x
Powder Coatings							x	x			

BURNOCK PH

BURNOCK PH phenolic resins for interior can coatings can be formulated as a primer or monocoat system. BURNOCK PH are highly-flexible binders which exhibit outstanding chemical resistance and fast curing properties.

HYDRAN

HYDRAN polyurethane dispersions (PUDs) provide coatings with exceptional pliability, conformability and adherence. Optimized for metals, glass, wood and leather, HYDRAN PUDs provide exceptional chemical resistance, solvent resistance, weather resistance, heat resistance, rigidity and hardness.

PATELACOL

PATELACOL waterborne acrylic resins for pretreatment passivation coatings to replace chromates in a variety of applications, including pre-treatment coatings for coil/pre-coated metal. They provide excellent flexibility, resistance to corrosion, acid, alkali and water. PATELACOL acrylic resins exhibit excellent blending stability with PUDs to be applied to Zinc or Zinc-Aluminum plated metals.

DIC UV Cureable

Acrylic UV-curable oligomer resins, which are optimized for hard and soft coat coatings, exhibit fast curability, excellent adherence, non-yellowing properties, abrasion resistance and are available in solvent free varieties.

WATERSOL

WATERSOL acrylic resins are self-emulsifying aqueous resins with ionic hydrophilic components that are chemically incorporated into its resin backbone. WATERSOL acrylic resins demonstrate excellent pigment dispersibility and low-temperature film formation properties.

CERANATE

CERANATE acrylic resins are self-emulsifying aqueous resins modified with polysiloxane for coating films with fluoropolymer-type weather and stain resistance.

DIC Acrylic

Solvent-based acrylic resins are widely used to provide coatings with exceptional appearance and high durability. Available in ambient, baking, isocyanate curing and moisture curing chemistries.

FINEPLUS

FINEPLUS GMA resins are additives in powder coatings that produce unprecedented adhesion and dispersion properties in aluminum wheel coatings, body clear coats and metallic finishes.

BURNOCK AC

BURNOCK AC are waterborne acrylic polyol resins which are suitable for two-component ambient cure coatings when combined with water-dispersible polyisocyanates. Utilizing this unique chemistry, BURNOCK AC acrylic resins are easily mixable, providing coating film properties similar to solventborne resins that feature an environmentally-friendly design.

MEGAFACE

MEGAFACE fluorochemical additives are surface modifiers that provide UV-curable film surfaces with exceptional water and oil resistance as well as fingerprint and stain resistance.

DEFENSA

DEFENSA fluorochemical coatings exhibit excellent stain and water resistance as well as low friction and demolding properties. Optimized for a variety of substrates, DEFENSA grades are specialized for vinyl chloride, rubber, artificial leather, PET and many more substrates types.



quality

service

innovation

Sun Chemical - Global Success in a World of Color and Metallic Effects

Sun Chemical Performance Pigments has been in the color and metallic effects business for over 100 years. Our leading-edge technology is unsurpassed as we continue our commitment to solve the color and metallic effects issues of today and develop new solutions for the future. Headquartered in Cincinnati, Ohio, Sun Chemical Performance Pigments is a division of Sun Chemical Corporation.

With annual revenues of more than \$3.5 billion, Sun Chemical Corporation is the world's largest producer of printing inks and pigments. We also are a leading provider of materials and services to the cosmetics, building materials, photovoltaic, packaging, publications, coatings, plastics and other industrial markets. Sun Chemical has a worldwide network of more than 250 locations that provide customers local service with a global perspective.

To learn more about our pigments, contact your local Sun Chemical representative.

working for you.

www.sunchemical.com

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