

Designers' Gouache Composition & Permanence

The table below provides technical information on the composition, permanence and characteristics of Designers' Gouache. For further information on what each heading means and how it can improve your painting, see [terms explained](#).

Code	Colour Name	Series	Permanence	T/O	BL	Chemical Description	CI Name	CI Number
004	Alizarin Crimson	1	B	T	-	BON arylamide red, 1,2-dihydroxyanthraquinone lake	PR12, PR83	12385, 58000
006	Alizarin Rose Madder	1	B	T	-	Barium lithol red, PTMA toner	PR49: 1, PV1	15630, 45170
022	Azure Blue	2	A	O	-	Chlorinated copper phthalocyanine, Copper phthalocyanine	PG17, PB15	74260, 74160
028	Bengal Rose	2	C	O	Bl	Rhodamine/aluminium lake, Fluorescent dye stuff/polyamide resin	PR173	45170
046	Brilliant Green	1	A	O	-	Zinc oxide, Chlorinated copper phthalocyanine, Arylamide yellow	PW4, PG7, PY3	77947, 74260, 11710
050	Brilliant Red Violet	1	B	O	Bl	PTMA toner, Fluorescent dye/resin based pigment	PV1	45170
052	Brilliant Violet	1	B(iii)	O	Bl	Complex sodium alumino-silicate containing sulphur, Fluorescent dye/resin based pigment, PTMA toner	PB29, PV1	77007, 45170
055	Brilliant Yellow	3	A	O	-	Cadmium zinc sulphide	PY35	77205
074	Burnt Sienna	1	AA	O	-	Synthetic iron oxide, Synthetic iron oxide	PY42, PR101	77492, 77491
076	Burnt Umber	1	AA	O	-	Calcined natural iron oxide, Synthetic iron oxide	PBr7, PY42	77491, 77492
086	Cadmium Lemon	4	A	O	-	Cadmium zinc sulphide	PY35	77205
089	Cadmium Orange	4	A	O	-	Cadmium sulphoselenide, Cadmium sulphoselenide	PO20, PR108	77199, 77202
092	Cadmium Primrose	4	A	O	-	Cadmium zinc sulphide	PY35	77205
097	Cadmium Red Deep	4	A	O	-	Cadmium sulphoselenide	PR108	77202
102	Cadmium Red Pale	4	A	O	-	Cadmium sulphoselenide	PR108	77202
111	Cadmium Yellow Deep	4	A	O	-	Cadmium sulphoselenide, Cadmium zinc sulphide	PO20, PY35	77199, 77205
118	Cadmium Yellow Pale	4	A	O	-	Cadmium zinc sulphide	PY35	77205
137	Cerulean Blue	4	AA	O	-	Cobalt stannate	PB35	77368
148	Chinese Orange	2	A	O	-	Carbon black, Pyrazolone orange, Chlorinated para red	PBk7, PO13, PR4	77266, 21110, 12085
178	Cobalt Blue	4	AA	O	-	Cobalt aluminate	PB28	77346
181	Cobalt Pale Hue	1	A(iii)	O	-	Coprecipitated zinc sulphide/barium sulphate, Complex sodium alumino-silicate, containing sulphur	PW5, PB29	77115, 77007
211	Cyprus Green	2	A	O	-	Copper phthalocyanine, Titanium dioxide, Chlorinated copper hth l i	PB15, PW6, PG7	74160, 77891, 74260

						phthalocyanine	PG7	74260
249	Flame Red	1	A	T	-	Toluidine red, Chlorinated para red	PR3, PR4	12120, 12085
257	Flesh Tint	1	B	O	-	Titanium dioxide, Chlorinated para red, Synthetic iron oxide	PW6, PR4, PY42	77891, 12085, 77492
260	Fluorescent Yellow	1	B	T	BI	Fluorescent dye/resin, based pigment	-	-
270	Forest Green	2	A	O	-	Arylamide yellow, Copper phthalocyanine	PY3, PB15	11710, 74160
271	Geranium	2	C	O	BI	Rhodamine/aluminium lake, Strontium toner	PR173, PR48:3	45170, 15865
283	Gold (Imitation)	3	A	O	-	Titanium dioxide coated mica/synthetic iron oxides	-	-
285	Gold Ochre	1	A	O	-	Calcined natural iron oxide, Arylamide yellow, Synthetic iron oxide	PBr7, PY1, PR101	77491, 11680, 77491
287	Golden Yellow	3	A	O	-	Cadmium zinc sulphide, Cadmium sulphoselenide	PY35, PO20	77205, 77199
297	Grenadine	2	A	O	-	Chlorinated para red, Toluidine red	PR4, PR3	12085, 12120
309	Havannah Lake	2	B	O	BI	Carbon black, 1,2-dihydroxyanthraquinone lake, Synthetic iron oxide	PBk6, PR83, PY42	77266, 58000, 77492
322	Indigo	1	A(iii)	O	-	Copper phthalocyanine, Carbon black, Complex sodium alumino-silicate containing sulphur	PB15, PBk6, PB29	74160, 77266, 77007
327	Intense Blue	2	A	O	-	Copper phthalocyanine	PB15	74160
331	Ivory Black	1	AA	O	-	Bone black	PBk9	77267
335	Jet Black	1	A	O	-	Aniline black	PBk1	50440
337	Lamp Black	1	AA	O	-	Carbon black	PBk7	77266
345	Lemon Yellow	1	A	O	-	Arylamide Yellow	PY3	11710
360	Light Purple	2	B	O	BI	PTMA toner, PTMA toner	PV3, PV2	42535, 45175
369	Linden Green	2	B	O	-	Arylamide yellow, Pyrazolone orange, Naphthol Green	PY3, PO13, PG8	11710, 21110, 10006
378	Madder Carmine	3	B	O	-	1,2-dihydroxyanthraquinone lake	PR83	58000
380	Magenta	2	C	O	BI	Rhodamine/alumina lake, PTMA toner	PR173, PV2	45160, 45175
384	Marigold Yellow	1	A	O	-	Arylamide yellow, Pyrazolone orange	PY1, PO13	11680, 21110
414	Mistletoe Green	2	A	O	-	Arylamide yellow, Chlorinated copper phthalocyanine	PY3, PG7	11710, 74260
422	Naples Yellow	1	A	O	-	Cadmium zinc sulphide, Synthetic iron oxide, Titanium dioxide	PY35, PR101, PW6	77205, 77491, 77891
436	Neutral Grey No 3	1	A	O	-	Titanium dioxide, Carbon black, Synthetic iron oxide	PW6, PBK7, PY42	77891, 77266, 77492
447	Olive Green	2	A	O	BI	Naphthol green, Arylamide yellow, Synthetic iron oxide	PG8, PY1:1, PY42	10006, -, 77492
452	Orange Lake Deep	1	A	O	-	Pyrazolone orange, Chlorinated para red	PO13, PR4	21110, 12085
453	Orange Lake Light	1	B	O	-	Pyrazolone orange	PO13	21110
459	Oxide of Chromium	2	AA	O	-	Chromium oxide	PG17	77288
463	Parma Violet	2	C	O	BI	PTMA toner, PTMA toner	PV3, PV2	42535, 45175

467	Peacock Blue	2	A	O	-	Chlorinated copper phthalocyanine, Copper phthalocyanine, Titanium dioxide	PG7, PB15, PW6	74260, 74160, 77891
471	Periwinkle Blue	2	B	O	-	PTMA toner, Copper phthalocyanine	PB1, PB15	42595, 74160
482	Permanent Green Deep	2	B	O	BI	Chlorinated copper phthalocyanine, Arylamide yellow	PG7, PY1	74260, 11680
483	Permanent Green Light	2	B	O	-	Arylamide yellow, Chlorinated copper phthalocyanine	PY3, PG7	11710, 74260
484	Permanent Green Middle	2	B	O	BI	Arylamide yellow, Arylamide yellow, Chlorinated copper phthalocyanine	PY1, PY3, PG7	11680, 11710, 74260
508	Permanent Yellow Deep	1	A	O	-	Arylamide yellow, Arylamide yellow	PY1, PY1:1	11680
512	Permanent White	1	A	O	-	Titanium dioxide	PW6	77891
514	Phthalo Blue	1	A	O	-	Chlorinated copper phthalocyanine, Copper phthalocyanine	PG7, PB15	74260, 74160
523	Primary Blue	1	A	O	-	Copper phthalocyanine	PB15	74160
524	Primary Red	1	B	T	BI	Rhodamine/alumina lake, Strontium toner	PR173, PR48:3	45160, 15865
527	Primary Yellow	1	A	O	-	Arylamide yellow, Arylamide yellow	PY1, PY3	11680, 11710
538	Prussian Blue	1	A	O	-	Alkali ferriferrocyanide	PB27	77510
544	Purple Lake	2	B	O	BI	PTMA toner, PTMA toner	PV3, PV2	42535, 45175
552	Raw Sienna	1	AA	O	-	Synthetic iron oxide, Synthetic iron oxide	PR101, PY42	77491, 77492
554	Raw Umber	1	AA	O	-	Natural iron oxide, Synthetic iron oxide	PBr7, PY42	77492, 77492
564	Red Ochre	1	A	O	-	Synthetic iron oxide, BON arylamide red	PR101, PR12	77491, 12385
574	Rose Carthame	1	C	O	BI	Strontium toner, Pyrazolone Orange	PR48:3, PO13	15865, 21110
591	Rose Malmaison	1	C	T	BI	Rhodamine/alumina lake, Strontium toner	PR173, PR48:3	45160, 15865
593	Rose Tyrien	2	C	O	BI	Rhodamine/alumina lake	PR173	45160
599	Sap Green	2	A	O	-	Copper phthalocyanine, Arylamide yellow	PB15, PY1	74160, 11680
603	Scarlet Lake	2	A	O	-	Arylamide yellow, Chlorinated para red	PY1, PR4	11680, 12085
609	Sepia	1	AA	O	-	Synthetic iron oxide, Calcined natural iron oxide	PY42, PBr7	77492, 77491
617	Silver (Imitation)	3	A	O	-	Titanium dioxide coated mica	-	-
621	Sky Blue	1	A(iii)	O	-	Complex sodium alumino-silicate containing sulphur, Copper phthalocyanine	PB29, PB15	77007, 74160
623	Spectrum Red	1	A	O	-	Toluidine red, 1,2-dihydroxyanthraquinone lake	PR3, PR83	12120, 58000
625	Spectrum Violet	1	C	O	BI	PTMA toner	PV3	42535
627	Spectrum Yellow	1	A	O	-	Arylamide yellow	PY1	11680
656	Turquoise Blue	2	A	O	-	Copper phthalocyanine, Titanium dioxide, Chlorinated copper phthalocyanine	PB15, PW6, PG7	74160, 77891, 74260
660	Ultramarine	1	A(iii)	O	-	Complex sodium alumino-silicate containing sulphur	PB29	77007
668	Ultramarine Deep	1	A(iii)	O	-	Complex sodium alumino-silicate containing sulphur	PB29	77007
676	Vandyke Brown	1	AA	O	-	Carbon black, Synthetic iron oxide, Carbon black, Calcined natural iron oxide	PBk6, PY42, PBr7	77266, 77492, 77491

678	Venetian Red	1	A	?O	-	Synthetic iron oxide, Arylamide yellow, BON arylamide red	PR101, PY1, PR9	77491, 11680, 12460
692	Viridian	3	AA	T	-	Hydrated chromium oxide	PG18	77289
694	Viridian Lake	2	A	O	-	Chlorinated copper phthalocyanine, Titanium dioxide, Copper phthalocyanine	PG7, PW6, PB15	74260, 77891, 74160
706	Winsor Blue	3	A	O	-	Copper phthalocyanine	PB15	74160
708	Winsor Emerald	3	A	O	-	Arylamide yellow, Chlorinated copper phthalocyanine, Titanium dioxide	PY3, PG7, PW6	11710, 74260, 77891
720	Winsor Green	3	A	O	-	Chlorinated copper phthalocyanine	PG7	74260
744	Yellow Ochre	1	AA	O	-	Synthetic iron oxide	PY42	77492
748	Zinc White	1	A	O	-	Coprecipitated zinc sulphide/barium sulphate	PW5	77115