colour chart Cobra Study water mixable oil colour

Zinc white	Titanium white	Titanium buff	Perm. lemon yellow	Primary yellow	Perm. yellow light	Perm. yellow M	Napels yellow D	Perm. yellow D
+++ 104 ◩ ▯ PW7	+++ 105 ■ ▯ PW6	+++ 291 ■ ▯ PW7/PY42/PBk9	+++ 254 ◩ ▯ PY184	+++ 275 ◩ ▯ PY184/PY154	+++ 283 ◩ PY154	+++ 284 ◩ ▯ PY154	+++ 223 ◩ PW7/PY154/PBr24	+++ 285 ◩ PY154/PO43
Permanent orange	**Naples yellow red**	**Vermilion**	**Pyrrole red L**	**Pyrrole red**	**Pyrrole red deep**	**Madder lake**	**Primary magenta**	**Persian rose**
+++ 266 ◩ PY154/PO43	+++ 224 ◩ PW7/PO43/PBr24	+++ 311 ◩ ▯ PO43	+++ 340 ◩ ▯ PR254/PO43	+++ 315 ◩ ▯ PR254	+++ 345 ◩ PR254/PR264	+++ 389 ◪ PR264	+++ 369 ◪ ▯ PV19	+++ 330 ◩ PW7/PR202
Perm. blue violet	**Blue violet**	**Ultramarine**	**Cobalt blue (ultram.)**	**King's blue**	**Prussian blue**	**Cerulean blue (phthalo)**	**Primary cyan**	**Turquoise blue**
+++ 568 ◪ ▯ PV23/PR122	+++ 548 ◩ PW7/PB29/PV23	+++ 504 ◪ ▯ PB29	+++ 512 ◩ ▯ PB29/PB15	+++ 517 ◩ PW7/PB29	+++ 508 ◪ ▯ PB27	+++ 535 ◩ PB15/PW7	+++ 572 ◩ ▯ PB15/PW7	+++ 522 ◩ PW7/PB15/PG7
Yellowish green	**Permanent green L**	**Permanent green D**	**Sap green**	**Olive green**	**Yellow ochre**	**Raw sienna**	**Light oxide red**	**Burnt sienna**
+++ 617 ◩ ▯ PG7/PY154	+++ 618 ◩ ▯ PG7/PY154	+++ 619 ◩ ▯ PG7/PY154	+++ 623 ◪ ▯ PG7/PY110	+++ 620 ◪ PG7/PY110/PR264	+++ 227 ■ ▯ PY42	+++ 234 ◩ PY42/PBk11	+++ 339 ■ PR101	+++ 411 ◩ ▯ PR101
Burnt umber	**Vandyke brown**	**Payne's grey**	**Ivory black**					
+++ 409 ◩ ▯ PR101/PBk11	+++ 403 ◩ PR101/PBk11	+++ 708 ◩ ▯ PBk9/PB15/PV19	+++ 701 ■ ▯ PBk9					

Explanations of the signs
from left to right
Example:

Primary yellow

+++ 275 ◩ ▯
PY184/PY154

Letter behind the colour name:
L = light , M = medium, D = deep

degree of lightfastness

+++ = at least 100 years lightfast under museum conditions (40 colours)
++ = 25 - 100 years lightfast under museum conditions
\+ = 10 - 25 years lightfast under museum conditions
° = 0 - 10 years lightfast under museum conditions

The lightfastness of all these colours has been tested in accordance with ASTM Standards D4303.

opacity

◪ = semi-transparent (7 colours)
◩ = semi-opaque (28 colours)
■ = opaque (5 colours)

275 = colour number

▯ = also available in tube of 200 ml

PY184/PY154 = pigments used

Cobra infinite freedom
water mixable oil colour