

POLYPLUS



Application

POLYPLUS series is a ready-to-use, fast curing, UV ink designed for printing on various plastic materials specially used in the container and packaging industry : rigid or semi-rigid flame treated containers in PE, PVC, PET and treated PP (cosmetic bottles, cartridges, cans, capsules...).

Advantages

POLYPLUS series is characterized by its high gloss, good curing properties and great resistance to abrasion and numerous chemical agents, detergents, cosmetics, etc. Its suitability to a wide range of substrates makes it a reliable option for container makers.

Finish

High gloss.

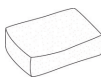
Machines

Semi-automatic or automatic machines



Screens

The recommended mesh is 140.34 PW to 180.31 PW (355 threads/in to 460 threads/ in).



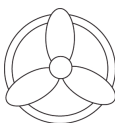
Cleaning

Dubuit's standard cleaning solvents are : Solvent H, ECO N Solvent and 93801 solvent.



Squeegee

Recommended with this ink : single, double or triple durometer polyurethane blades with hardness between 85 and 75 shores.



Curing

Polyplus's optimal cure performance of 150 and 250 mJ/cm² is generally achieved with a UV-curing unit of one or two 120 W/cm (305W/in) lamps at belt speeds of 10 to 20 m/min (32 to 65 feet/min).



Additives

For special needs, you may add some additives into the ink.

Thinning:

The most appropriate thinner is ST 156 thinner. In case of adhesion difficulty, you may use the 6E Thinner.
Instruction: 1 to 5 %

Hardener:

For special requirements such as extra water resistance, we recommend the addition of 3 to 5 % hardener ST 305.

Because of the large diversity of substrates, we recommend that you carry out trials prior to full production.

PRODUCT SELECTION CHART

STANDARD SHADES 700		PRODUCT
MID YELLOW	710	BPOL710K
GOLD YELLOW	720	BPOL720K
MANDARIN	730	BPOL730K
VERMILLON	740	BPOL740K
DARK RED	750	BPOL750K
PINK	760	BPOL760K
VIOLET	770	BPOL770K
PRIMARY BLUE	780	BPOL780K
EMERALD GREEN	790	BPOL790K
MIXING BLACK	701	BPOL701K
MIXING WHITE	702	BPOL702K
OPAQUE WHITE	3025	BPOL3925K/C
OPAQUE BLACK	3084	BPOL603K/C
NON YELLOWING WHITE	604	BPOL604K/C
MIXING BLACK	601	BPOL601K/C
BASE	095	BPOL095K/C
THIXO BASE	098	BPOL098K/C
VARNISH	090	BPOL090K/C

Color Matching

Dubuit offers a full in-house color matching service from 1 kg. Please provide as much information as possible regarding the type of substrate, color, mesh used...

Special requirements

It is possible to intensify our inks' colors by adding MULTIFLEX pigment concentrates. For more details on use and price please contact our technical support department.

Surface energy

A uniform surface energy of at least 42 Dyne/cm² is required for a good adhesion. The substrate's surface should be free of graphite, silicone, dust and residues of grease or similar substances (e.g. finger prints).

Storage

Standard shades have a guaranteed shelf life of 1 year from their date of shipment from our factory, undiluted, in the original, unopened container. The above guarantee is applicable to inks stored in a dry, dark, well-aired environment at a temperature between 15-25 °C (59-77 °F).



Standard and Legislations:

For full details about our inks' conformity with current standards, please refer to the document ECO SYSTEM LABEL by Encres Dubuit.

Material safety data sheet available at : <http://www.edubuit.com/msds/> or export@encresdubuit.com

Dubuit guarantee the quality of our products. We cannot however guarantee the finished results because we exercise no control over an individual operating procedures. Our responsibility is limited solely to the exchange of ink or varnish. The quality of a substrate to be printed can vary, as can an ink being overprinted; therefore the above information is given in good faith based on the state of our art and prior experience. This statement also applies to our technical assistance. When using our inks and varnishes on a new substrate or when changing operating procedures, we strongly recommend testing before use in a production situation to ensure full compatibility. **Please refer to our General Conditions of Sales.**