

POLYGLOSS

TECHNICAL SPECIFICATIONS

PRODUCT DESCRIPTION

POLYGLOSS is a NON-CMR solvent- ink.

APPLICATIONS

Tinplate, aluminum, non-ferrous metals, lacquered substrates, melamine, acetates, polyesters, polyurethane, polycarbonate, treated polyester, treated polyethylene and polypropylene, PETG, PVC, PMMA, road signs (Polygloss R).

The above-mentioned substrates may differ according to their origin. It is therefore essential to carry out preliminary tests.

Manual, semi-automatic, 3/4 automatic, and automatic machines.

MAJOR ADVANTAGES

- · Single, dual, or triple-component ink enabling marking and decoration of substrates considered difficult to print.
- · High resistance
- · Ink and hardener mixture highly stable (up to 48 hours in closed containers)
- · Good resistance to chemicals (acid, alcohols, detergents, household products).
- · Good ink flexibility.
- · Rapid surface drving.
- · Suitable for pad printing.
- · Easy cleaning on machinery.

APPEARANCE

Glossy.





Substrate	Tinplate, aluminum, non-ferrous metals, lacquered substrates, melamine, acetates, polyesters, polyurethane, polycarbonate, treated polyester, treated polyethylene and polypropylene, PETG, PVC, PMMA, road signs (Polygloss R)			
Mesh	200 to 355 threads/inch (79 to 140 threads/cm)			
Emulsion	All types of solvents resistant emulsions			
Squeegee	65shA or 75shA			
Drying	Solvent evaporation			
Diluent and additive	Thinner MP201 Retarder MP203			
Cleaning	77 BIO			
Storage	5 years stored between +5°C et +35°C			

COLOR RANGES & PACKAGING						
BASIC COLORS		STANDARD COLORS		OPAQUE BLACK / WHITE		
PG 102 WHITE	1 L	PG 433 SUPER ORANGE	1 L	PG 103 OPAQUE WHITE	1 L	
PG 404 ORANGE	1 L	PG 526 MEDIUM YELLOW	1 L	PG 905 OPAQUE BLACK	1 L	
PG 406 GOLDEN YELLOW	1 L	PG 531 RICH YELLOW	1 L			
PG 501 LEMON YELLOW	1 L	PG 638 BRILLIANT GREEN	1 L	VARNISH		
PG 612 GREEN	1 L	PG 722 BRILLIANT BLUE	1 L	PG003	1 L	
PG 701 VIOLET	1 L	PG 727 BLUE	1L	PGUV03	1 L	
PG 719 PERMANENT BLUE	1 L	PG 743 FRENCH BLUE	1 L			
PG 801 RED	1 L	PG 828 FIRE RED	1 L	DILUENTS AND ADDITIVES		
PG 810 CARMINE	1 L	PG 830 BRIGHT RED	1 L	PG/TG 201 POLYGLOSS/TGLASS THINNER	1 L	
PG 811 PINK	1 L			PG/TG 203 POLYGLOSS RETARDER	1 L	
PG 902 BLACK	1 L	REFLECTIVES COLORS	1L	PG 280 POLYGLOSS HARDENER	100 - 500 CC	
		PG 40 R REFLECT ORANGE	1L	PG/TG 291 GLASSBOND IMPROVER	100 - 500 CC	
		PG 50 R YELLOW	1L	PG/PBI-100 POLYESTER BONDING IMPROVER	100 CC	
		PG 60 R VERT RETROREFL	1 L	PG/TG 2023 DILUANT TAMPOGRAPHIE	100 CC	
		PG 70 R REFLECTIVE BLUE	1 L			
		PG 80 R REFLECTIVE RED	1 L			

INSTRUCTIONS FOR USE

SCREEN

Meshes from 63 to 140 threads per centimeter. Emulsions or films used must be solvent-resistant

SOUFFGEE

Polyurethane 75 shA

PERFORMANCE

With a fabric of 120 threads/cm, 1KG will cover 40 to 50m².

The ink/hardener mixture is diluted exclusively with the normal diluent PG201, the retarder diluent PG203, or a mixture of both.

Dilution rate of 10 to 20% depending on the mesh.

The inks of MPI range are miscible with each other to obtain intermediate tones.

To reduce color intensity or achieve semi-transparent effects, the overprint varnish base PGUV03 can be added, but light resistance will be proportionally affected.

OPACITY-APPEARENCE

Polygloss inks have good opacity. They have a glossy appearance.

The pigments used do not migrate, and colors are stackable once the previous layers are fully

PREPARATION OF THE SUBSTRATE

Ensure that the substrates to be printed are free from oxidation or grease. The printing surface should be cleaned, if necessary, by sandblasting, and thoroughly dried.

For substrates with difficult adhesion, add 10% by weight of PG280 hardener to the ink (pot life of the mixture: 48 hours).

For very difficult substrates, particularly polyesters and certain lacquered metals, add 10% by weight of PG/TG290, then 20% of PG.PBI (Polyester Bonding Improver). The pot life of this mixture is reduced to 8 hours.

With ambient air, final curing allowing adhesion testing is achieved after 3 days.

An increase in temperature allows for complete curing throughout: As an indication: 5 to 10 minutes at 150°C, or 25 to 30 minutes at 120°C. Yellowing of whites PG.102 and PG.103, or varnish PG.003, may occur if polymerization occurs for more than 10 minutes at a temperature above 120°C.

ADHESION-RESISTANCE

Polygloss inks notably resist alcohols, detergents, mineral oils, cosmetic products, soaps, detergents, gasoline, and seawater, etc.

Polygloss inks are approved in the industry.

PRODUCT PROPERTIES

On substrates with low surface energy, the treatment must be higher than 41 dynes/cm. After the support has completely cooled to room temperature, the printed ink film must withstand the 3M810 tape test after gridding.

HANDLING

Homogenize before use.

SCREEN CLEANING

Cleaning with the 77BIO bio solvent is recommended.

The screen should be immediately cleaned after use because the hardener would make it impossible to dissolve the ink after drying on the screen.

WASTE MANAGEMENT

HEALTH AND SAFETY

STORAGE

Packaging contaminated with hazardous substances. Do not dispose into the environment.

VFP Ink Technologies encourages all users to develop a responsible environmental policy

Refer to the MSDS.

We recommend that you wear Personal Protective Equipment recommended by the MSDS and follow its handling precautions

5 years in its original packaging stored between $+5^{\circ}\text{C}$ and $+35^{\circ}\text{C}$

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