



SCREEN PRINTING TEXTILE INK

POLYWORKS

Mild-odour physically-drying ink, designed for printing on fabric, directly or by transfer. Polyworks is used for printing on thick synthetic fabric, coated fabrics and leather (handbags and luggage, slipcovers and cases, awnings) and on cotton and cotton polyester (work clothing), as well as on most technical fabrics. It has a good opacifying effect, is highly flexible and offers simplified Pantone mixing.

Use

POLYWORKS ink can be used on most synthetic and woven cotton fabrics
It can be used without a hardener in most cases where no specific resistance is required.

If additional resistance is required (adherence, flexibility, weather-resistance), the user adds the hardener XF 822, at 10% of the weight of the **POLYWORKS** ink.

For textile printing that must withstand household washing, the XF 822 hardener must be used.

Final resistance is obtained **72 hours** after application. We recommend checking the different compatibilities and resistances of the ink on a particular fabric by washing the finished item under the conditions stated on the label.

This ink, used with the hardener, lets you print on work clothing directly or by transfer.

On fabrics for which adherence is a problem, add the adherence agent (3472090), at 3% of the weight, in addition to the hardener.

Printing by transfer

Adhesive powder (**3863327**) must be used.

The ink, combined with 10% of hardener XF 822 (representing 10% of the ink weight), will be fixed on polyester film for matt transfer only (**2543600 or 3543700**)

- **Drying:** in open air or accelerated in a tunnel. 1 minute in a tunnel at 110°C after adding the adhesive powder.

- Wait for 72 hours.

- **Transfer to textile:** pressure: 3 to 5 bars; temperature: 170°C - 190°C; time: 20 to 30 s.

We recommend checking these parameters under your conditions by washing the clothing.

Technical characteristics

➤ Appearance:	glossy	➤ Light resistance:	good
➤ Average density:	1.30	➤ Thinners:	
➤ Viscosity:	38 ± 5 Pa.s	• reducer	4908
➤ Drying:		• retarder	4968
• air	30 mins at 20°C	• fineness	Retargel (10% max)
• forced air tunnel	2 mins at 60°C	➤ Cleaning solvents:	
➤ Ink + hardener mix pot life:	12 hours	• manual	2891, NS-81, NS-91 & NS-99
➤ Covering power		• washer	2891, 2899, NS-81, NS-91 & NS-99
➤ Surface yield: 25 m ² /kg	with a 49 - 70 fabric	➤ Storage and shelf life:	see label
➤ Weather resistance:	good		

Toxicology

POLYWORKS inks comply with the EN 71-3 standard.

STANDARD COLOURS	1 kg item no.
White OP *	3492012
 Lemon OP *	3492002
 Golden yellow OP *	3492004
 Orange OP *	3492006
 Bright red OP	3492008
 Carmine red OP *	3492013
 Cyclamen OP *	3492014
 Violet OP *	3492016
 Medium blue OP *	3492022
 Dark blue OP *	3492026
 Medium green OP *	3492033
 Dark green OP *	3492034
 Brown OP	3492042
 Black OP *	3492072

The colours shown in this document are non-binding.
On request, we will provide you with a colour guide that shows the tints more faithfully.



STANDARD COLOURS	1 kg item no.
THIXO FOUR-COLOURS	
Thixo 4-colour yellow	3492050
Thixo 4-colour magenta	3492052
Thixo 4-colour cyan	3492054
Thixo 4-colour black	3492056
Thixo 4-colour base	3492059
EXTRA- OPAQUE COLOURS	
Extra-opaque white	3492085
Extra-opaque yellow	3492087
Extra-opaque red	3492088
BASES	
Varnish *	3492058
Soft base	3492068
ADDITIVES	
Hardener: XF 822, 100 g dose	3470503
Flexible hardener, 130 g dose	3470805
Gelling agent, kg	3952061
Adherence agent, 100 ml	3470590
Adherence agent, 1 L	3472090

Pantone® mixing

Polyworks inks, marked with an asterisk *, can easily be mixed into all of the Pantone® colours using the Color Matching System developed by Tiflex.



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