



SCREEN PRINTING

TEXTILE INK

AQUADIR

Water-based polyurethane ink for printing directly on textiles. It yields flexible and elastic prints.

Use

Screens will be coated with emulsions resisting to cleaning solvents.

The fabric mesh is chosen according to the work to be carried out. To achieve maximum opacity, we recommend you to use size of mesh from 36 and 70 fibres/cm.

For multiple printing, we recommend you to flash between each colour.

The last layer has to be dried in an IR tunnel during 2 minutes at 160°C. In case of ink blending combined with low temperature hardener to avoid pigments migration, drying conditions will consequently be 100°C for 2 mn.

IMPLEMENTATION

Preparation is required before using this range of inks. The pigmented concentrates are used with the thinner base on its own or with the thinner base and the blending white.

PREPARATION

- Red resist, ruby red and black, 90% thinner base, 10% pigmented concentrate.
- Lemon, thinner base 37,5%, blending white 60%, 2,5% pigmented concentrate.
- Other colours, 20% base, 60% white, 20% pigment concentrate.
- Gold paste 20%, base 80%.
- Silver paste 13%, base 87%.

Specifications

➤ Finish:	satin	➤ Covering power:	good
➤ Odour:	very few	➤ Surface yield:	20 m²/l with 36 - 70 fabric
➤ Average density:	1.25	➤ Washing resistance:	correctly fixed, resists domestic washing: 30 to 50 °C cycles
➤ Rheology:	thixotropic ink	➤ Ironing:	on the reverse
➤ Polymerisation:	- 2 min at 160 °C in IR tunnel, value to be adjusted according to the material used (test the printing according to the wash programme recommended) - for drying at room temperature, hardener (ref. 3540561) must be mixed at up to 2% (wait 8 to 15 days before washing to test the printing)	➤ Retarding diluent:	3X9394
➤ Cleaning:	water	➤ Shelf life:	refer to the label
		➤ Storage conditions:	between 0 °C and 35 °C
		➤ Colours miscible together:	yes

Toxicology











The **AQUADIR** inks comply with EN 71-3 standard.

TIFLEX would like to draw your attention to the following points:

Before starting production, you are recommended to check ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label.

Washing resistance may be reduced with some dyes rich in base colours or white (transparent or pastel colours) or a too important incorporation of pigment concentrates. The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing). This phenomenon is independent of ink polymerisation.

High washing temperatures associated with powerful detergents may lead to colour changes with some colours.

COLOURS	Ref. 1 l
PIGMENT CONCENTRATES	
 Lemon	3522002
 Yellow	3522004
 Orange	3522006
 Cherry red	3522008
 Rubis red	3522012
 Fuchsia	3522015
 Purple / Violet	3522016
 Primary blue	3522020
 Mint green	3522035
 Black	3522044

STANDARD COLOURS	Ref. 5 l
Thinner white	3544000
Covering white	3544087
BASE	
Thinner base	3544066

SPECIAL EFFECT	Ref. 1 kg
METALLIC	
Silver paste, per kg	3542047
Gold paste, per kg	3562096

ADDITIVE	Ref.
Room temperature hardener, per 100 g*	3540561

* Ref: 3540561 : Acute inhalation toxicity, Category 4 ; Skin sensitisation, Category 1 ; Specific target organ toxicity (single exposure), Category 3 ; Hazardous to the aquatic environment - Chronic hazard, Category 3

Non contractual colours and pictures
On simple request, we can propose you a color panel card displaying accurate shades.



IMP, TIFLEX, 01.01.2018 - Non contractual colours and pictures - Only our Web-site is authorised to give real-time information about our inks. Paper notices are considered unwritten and no longer engage our company's responsibility once they are updated on our Web-site. Our responsibility can be engaged only if the customer has based his position on the information published on our Web-site. In all cases, the user should carry out validation tests under his own conditions before using our inks for his production. The safety data sheets are available free at: www.tiflex.com/fds



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