

AFFORD[®]


TEXTILE

PRINTING

SCREEN

INKS

Quality Solutions

A man in a dark suit is seen from behind, standing on a city street and painting a large, vibrant, multi-colored abstract mural on a wall. The mural features splatters and streaks of blue, yellow, red, and green. In the background, a city skyline with tall buildings is visible under a hazy sky.

AFFORD® offers a wide range of screen printing inks chemicals for textile printing. Our solutions are aimed to provide our customers with the maximum freedom at the time of production.

Our inks are suitable for printing on a wide variety of fabrics, from cotton to polyester and its mixtures. We produce different formulations which allow you to obtain numerous hand effects, and with the addition of specific additives obtain unique effects.

We are aware of the importance of having a safe supply chain. For that reason we can provide well known certificates for some of the products such as **ZDHC Level 1**, **OEKO Passport** or **GOTS** approval by Ecocert Greenlife. Please, check with your sales representative in case such need is requested.

PRODUCT OFFER

WATER BASED

66 SERIES
64 SERIES
CHEMICALS
WATER BASE
PIGMENTS

EMULSIONS & ANCILLARIES

PLASTISOLS

60 SERIES
62 SERIES

Water based inks contain neither **PVC** nor phthalates, which makes them user friendly for many applications. There are a good number of effects to obtain unique results: puff effect, glitter printing, flock, suede...

Plastisols offer the benefit of being suitable for almost any textile which can withstand temperatures of over 160°C and printing with excellent stability on the screen. All our plastisols are phthalate free, and we were pioneers to produce a PVC free plastisol. Plastisols are specially suitable to create 3D effect, gloss effect, printing and glitter effects.

AFFORD® also provides bases and pigments for those customers who want to prepare the inks by themselves.



60 series is a PVC and phthalate free plastisol. This range of products is ideal for customers looking for high quality results and looking for environmental sustainability.

As any other plastisol, it has excellent printability, even wet on wet, and excellent performance on the screen.

Being free of PVC and phthalate it complies with the most demanding ecological standards such as **GOTS, OEKO-TEX, ZDHC level 1...** This ensures security in your supply chain.

These inks can be printed on a very wide range of fabrics and provide, high quality prints, fastness, color strength, coverage, soft hand and tack-free prints.

	Application	threads/cm	curing	characteristics
Standard Colors	Normal spot colours	≤ 120th/cm up to 5% 60.DIL	1' @ 170°C	soft touch matt finish
Fluorescent Colors	High brilliance colors	≤ 90th/cm up to 5% 60.DIL	1' @ 170°C	bright colours matt finish
Process Colors	Halftone printing	120 to 150th/cm up to 5% 60.DIL	1' @ 170°C	sharp definition soft touch
Extra Opaque White 60.110	High coverage on dark garments	43 to 90th/cm up to 5% 60.DIL up to 5% 60.FST	1' @ 170°C	matt finish excellent whiteness
Foam Base 60.180	Puff effects	43 to 61th/cm	2' @ 170°C	soft finish high height
Clear Gel 60.081	For glitter or glossy overprints	14 to 62th/cm	3' @ 160°C	transparent non yelloning
Foil Ink 60.082	Hot foil transferring	43 to 90th/cm	1' @ 170°C	soft touch
Low Bleed White 60.120	High coverage on dark synthetic fabrics	43 to 90th/cm up to 5% 60.DIL	1' @ 170°C	matt finish excellent whiteness



62 series is a classical phthalate free plastisol which is characterized by its excellent coverage and printability. It virtually works on almost any fabric that can be exposed to 160°C for short period of time. Its stability on the screen is excellent, thus maximizing the productivity due to the possibility of producing long runs without having downtime for cleaning the screen frames. The range of products include regular colors as well as many specialties, such as high density, foam, clear gels, polygrey...

In general these inks provide high opacity, bright colors range, good elasticity and a nice soft touch.

On the chart, we can see the main characteristics. →

	Application	threads/cm	curing	characteristics
Standard Colors	Normal spot colours	≤ 120th/cm up to 5% 62.DIL	1' @ 170°C	soft touch matt finish
Fluorescent Colors	High brilliance colors	≤ 90th/cm up to 5% 62.DIL	1' @ 160°C	bright colours matt finish
Process Colors	Halftone printing	120 to 150th/cm up to 5% 62.DIL	1' @ 170°C	sharp definition glossy colors
Extra Opaque White 62.110	High coverage on dark garments (automatic machines)	43 to 90th/cm up to 5% 62.DIL up to 5% 62.FST	1' @ 170°C	matt finish excellent coverage
Extra Opaque White 62.108	High coverage on dark garments (manual machines)	43 to 90th/cm up to 5% 62.DIL	1' @ 170°C	soft handling excellent coverage
Hi-density Clear 62.020	3D printing	34 to 43th/cm up to 5% 62.DIL	2-3' @ 170°C	sharp definition hard
Foam 62.080	Puff effect	43 to 62th/cm	2-3' @ 180°C	cohesion high volume
Low bleed White 62.105	High coverage on dark synthetic fabrics	43 to 90th/cm up to 5% 62.DIL	1' @ 170°C	matt finish excellent whiteness
Clear Gel 62.081	For glitter or glossy overprints	14 to 62 th/cm	3' @ 160°C	transparent non yellowing
Foil Gel 62.082	For hot foil transferring	43 to 90th/cm	1' @ 170°C	soft touch
Polygrey 62.189	High antibleeding effect on polyester. Overprintable with white			excellent barrier
Metallic colors	Excellent metallic finish	43 to 120th/cm up to 5% 62.DIL	1' @ 170°C	high brilliance washing resistance
Glow in the dark	Luminescent ink	34 to 43th/cm up to 5% 62.DIL	1' @ 170°C	high intensity long lasting
Pigment concentrates	To compose colors	43 to 150th/cm	1' @ 170°C	

WATER BASED INKS

Water based inks offer excellent versatility and easy of use. These inks are ecofriendly and neither contain PVC nor phthalates. We can create a big number of effects and obtain beautiful colors with excellent touch feeling.

One of its advantages is that it can be used for printing on temperature sensitive substrates. In general, it is recommended to cure the inks for 1 to 3 minutes at 130°C but in most cases the polymerization can happen at room temperature. In such cases, washing resistance is attained approximately after one week.

Many customers prefer to use a base and a white and create the shades they need by adding the pigments in liquid form. For this system **AFFORD®** offers the following bases.

66.000

66.060

64.064

66.066

64.110

66.110

66.150

66.155

66.160

Application	threads/cm	curing
Transparent base to obtain clear shades (cotton and mixtures)	43 to 120th/cm	3 ' @ 130°C
High transparency base	43 to 120th/cm	3 ' @ 130°C
No hand feel mixing base for cotton	43 to 120th/cm	3-5 ' @ 120°C
Mixing base for cotton and mixtures with fibres	43 to 100th/cm	3 ' @ 130°C
Excellent hand feel white for cotton	34 to 62th/cm	3-5 ' @ 120°C
Very opaque white for cotton and mixtures with fibre	34 to 90th/cm	3 ' @ 130°C
Thin film forming white for excellent hand feel	34 to 77th/cm	3 ' @ 130°C
High opacity white, excellent coverage	34 to 100th/cm	3 ' @ 130°C
Highly elastic white	34 to 77th/cm	3 ' @ 130°C

These bases can be mixed with 65 series, which is composed of water based dispersions of regular pigments and fluorescent pigments.

Regular Pigments

65.212	65.213	65.214	65.309	65.400	65.420	65.439	65.440	65.500
65.600	65.670	65.700	65.800	65.824	65.829	65.900	65.110	

Fluorescent Pigments

65.207	65.307	65.407	65.507	65.607	65.807
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Metallic Pigments

65.114 65.234

A graphic of a paint palette with several brushes and a small white card with the text 'WATER BASED INKS'. The background is a colorful, abstract pattern of overlapping geometric shapes and splatters in shades of blue, green, yellow, orange, and pink.

WATER

BASED INKS

All our pigments are PVC, phthalate, formaldehyde and heavy metal free.

As well **AFFORD®** provides a wide range of specialty products. These products will provide unique special effects that will make you print outstand. Most popular effects are summarized in this chart.

	Appliccation	threads/cm	curing
66.081	Non sticky transparent gel used as antifoil	43 to 100th/cm	3 ´ @ 130°C
66.088	Foil and flock adhesive, with excellent transfer results	43 to 100th/cm	3 ´ @ 130°C
64.114	High brilliance metallic silver	43 to 77th/cm	3 ´ @ 130°C
66.134	Highly transparent base for the creation of metallic shades.	43 to 100th/cm	3 ´ @ 130°C
64.234	High gloss metallic gold	43 to 77th/cm	3 ´ @ 130°C
66.151	Highly transparent and elastic base for glitters	14 to 61th/cm	3 ´ @ 130°C
66.170	Base for hot stamping foil application	34 to 100th/cm	3 ´ @ 130°C
66.180	Base for the creation of puff effects	34 to 100th/cm	3 ´ @ 130°C
66.189	Polygrey to avoid the migration of the fibre colour when exposed to heat	34 to 61th/cm	3 ´ @ 130°C

CHEMICALS

Some printers prefer to prepare the pastes for their own use.

For these printers **AFFORD®** can provide a full range of products that includes resins, thickeners, fixing agents, pigments, etc.

Due to the variety of products and different requirements in relation to standards to fulfil and pricing, we encourage you to contact your nearest representative for the best recommendation.

EMULSIONS

The following emulsions have been selected to be used in textile applications

Emulsions	Tipo	Resistance solvent	Water resistance	Solids	Colour
11.110	Photopolymer	Plastisol	Yes	38%	Violet
11.114	Diazo	Plastisol	Yes, high	41%	Blue
11.170	Photopolymer	Yes	Yes	50%	Red
11.701	Diazo	Yes	Short	38%	Blue



ANCILLARIES

As well, **AFFORD®** provides a range of products that includes emulsion removers, antighost agents, desgresers, etc. These are the most popular products used in textile screen printing.

Degreaser	
12.320	Degreaser to clean the fabric and improve the grip of the emulsion
Emulsions removes	
12.370	Remove emulsion powder. It has to be diluted with water
12.380	Remove liquid emulsion. It can be reduced with up to 20 parts of water

Blocking solutions	Tipo	Resistance solvent	Water resistance	Colour
12.350	Resistant to solvent	Yes	No	Blue
12.351	Water resistant	No	Yes	Violet

Cleaners and antighost image	
12.385	Degreaser to clean the fabric and improve the grip of the emulsion
12.388	Remove Ghost image. It is an energetic product with the advantage that it can be left on the screen for an hour without problems.
12.390	Combination of the previous two

The information supplied is a result of our updated knowledge; it is supplied with good intention but under no circumstances it can be taken as a guarantee.

Moreover, taking into account the great diversity of printable materials, the diversity of machinery and procedures to carry out the jobs, it is the user's responsibility to check the suitability of our products to obtain the objectives he desires, with the resources and procedures he has.

The user must also be make sure he complies with the current legislation, situation of patents and third party rights when applicable.



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