

61 SERIES | PLASTISOL PRINTING INKS Screen Printing Inks

Product Statement and Key Features:

61 SERIES is a plastisol with maximum fastness or rubbing and washing.

- good powering coverage on dark grounds
- very nice soft touch finish
- suitable for direct printing on cotton fabrics and their mixtures and for transfer
- excellent stability on the screens

AFFORDPLAST 61 Series Technical Data:

Affordplast 61 Series inks are a range of phthalate free plastisol inks designed for printing of most natural and synthetic fabrics used in the t-shirt, sweatshirt and sports apparel markets.

Printing and drying information:

We advice to print with mesh between 90 to 120 mesh/cm. When there is a need to attain the maximum opacity we recommend using mesh of 43 mesh/cm.

Most stencil types are suitable, 11.170 and 11.701 emulsions are recommended.

Prints are recommended to be cured with temperaturas between 160 to 180°C, with time for curing depending on the quantity of plastisol applied. This time is also affected by the type of oven used.

It is essential that the printed ink film is given time to fully cure to ensure full washfastness is achieved and it is the user's responsibility to confirm the cure schedule by testing washfastness and suitability prior to commencing a full production run.

Flash Curing:

Typically a time of 5 to 10 seconds must be used for flash curing, depending on the flash unit used, distance from the fabric, wavelength of the flash unit in use, fabric colour, printed ink filmweight and coverage.

Washfastness:

Affordplast 61 Series prints exhibit good washfastness, passing 50 washes at 40 ° for 50 minutes.

Note*: Washfastness properties can be compromised with the use of harsh detergents and high wash temperatures and some colour combinations may result in a colour fade, this is particularly relevant with tints and pastel shades and the user must test washfastness before commencing a production run.

Prints will not resist dry cleaning and the finished garment must be marked accordingly.

Thinning and Wash Up:

Affordplast 61 Series are formulated as ready for use, however if thinning is deemed necessary to improve flow up to 5% of 61.DIL by weight can be used.

Washing up of screens should be carried out using 52.001 Screen Cleaner.

Applications:

Most woven and knitted fabrics typically used for T-Shirts, Sweatshirts, Sports and Fashion wear, hats & caps.

Fabrics:

Suitable for use on most commonly available natural and synthetic fibres, Cotton, Cotton/Polyester blends and many other synthetic fabrics.

Transfer Printing:

61 Series can be used for heat transfers. Usually a precuring step of 105°C is used for precuring between colours. A final pass at 120°C for 45 seconds is recommended.

Storage:

61 Series inks and additives should be stored at temperatures between 10-25°C with a relative humidity between 30 to 70%.

Safety Information Handling Instructions & Shelf Life:

Users are advised to wear gloves and barrier cream to prevent direct skin contact.

Safety glasses are suggested in areas where ink may be splashed.

If ink does come in contact with skin, wipe ink off with a clean, dry cloth (do not use solvents).

Wash the affected area with soap and water.
Consult the applicable Safety Data Sheet (SDS) for further instructions and warnings.

Ink and cleaning solutions should always be kept away from heat, sparks, and flames. If stored or transported at a different temperature, the ink should be allowed to reach room temperature before calibration or printing. This may have an adverse effect on performance and will affect any warranties given by AFFORD.

Recommended shelf life of this product is 24 months from the date of manufacture when stored under preferred conditions.

Environmental Information:

61 Series inks do not contain any ozone depleting chemicals as described in the Montreal Convention.

Colour Range Table:

 000 - TRANS-PARENT	 110 - EXTRA WHITE OPAQUE	 207 - FLUO YELLOW	 225 - LEMON YELLOW	 245 - GOLDEN YELLOW	 305 - ORANGE	 307 - FLUO ORANGE	 405 - DARK RED
 425 - SIGNAL RED	 435 - FIRE RED	 507 - FLUO MAGENTA	 515 - INTENSE PINK	 605 - SKY BLUE	 615 - MEDIUM BLUE	 665 - ULTRA-MARINE BLUE	 675 - ROYAL BLUE
 715 - VIOLET	 807 - FLUO GREEN	 815 - GRASS GREEN	 825 - DARK GREEN	 900 - BLACK			

Afford Quality Statement:

AFFORD Industrial SL assures the quality of this product. AFFORD cannot, however, guarantee the finished results because AFFORD exercises no control over individual operating and production procedures. While technical information and advice on the use of this product is provided in good faith, the user bears sole responsibility for selecting the appropriate product for their end use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life cycle from proofing, printing, post print processing, and shipment to end use. This product has been specially formulated for use with the printing process indicated within the technical information, and it has not been tested by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from AFFORD Industrial SL.

Support:

AFFORD Industrial are a company with international sales coverage, and as such can offer technical, engineering and sales support to our customers worldwide. If you require more information regarding this product, or any of our extensive range of products for screen, pad, digital, flexo and gravure print processes, please contact your local sales representative.

Disclaimer:

All information on this data sheet is based on laboratory tests carried out by AFFORD Industrial SL and from end user experience in print shops. Procedures and directions for use of AFFORD Industrial products (including printing and after-treatment) must be considered as recommendations only, with no warranties expressed or implied. The user of the products described herein is solely responsible for determining suitability of any AFFORD Industrial product(s) for the chosen application. AFFORD Industrial recommends that all products be pre-tested prior to full-scale production use. This data sheet supersedes all previous publications. October 2021.