

AFFORD®

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50
Series

NYLOFFORD

TECHNICAL DATA SHEET

SOLVENT
SCREEN INK

50 Series Product Statement and Key Features:

AFFORD 50 Series are a range of one component solvent based screen printing inks designed for printing onto nylon and certain types of treated polyester and polyamide and other synthetic materials.

50 SERIES prints exhibit a smooth tough semi gloss surface finish with good resistance to abrasion and washing with a high degree of flexibility.

AFFORD 50 Series have good flexibility and adhesion on many fabrics which have been treated for water resistance. However as surface water resistance treatments vary, it is essential that pre-production tests are performed to ensure compatibility between inks and materials.

Recommended applications:

Suitable for nylon, some treated polyesters and polyamides.

Finish: Semigloss.

Printing and Drying Information:

Mesh selection is critical for optimum results, meshes in the range 43-62 T/cm are recommended for maximum opacity, and 77-100 T/cm for fine detail print, image type and fabric will also dictate the most appropriate mesh grade. Please consult with AFFORD technical services for further guidance.

Most stencil types are suitable, but ARGAZOL 11.701 direct emulsion stencils with meshes ranging from 43-100T/cm meshes are recommended (see above).

Drying times below are only approximate as drying properties depend on various factors, such as mesh grade, ink film thickness and local print environment conditions including temperature and humidity. Please consult with AFFORD technical services for further guidance.

50 Series inks are not supplied ready to use, on press viscosity should be adjusted, D-200 can be used as a thinner, D-400 as normal and with D-696 available as a retarder.

In some exceptional cases, 5-10% of 29.140 hardener can be added in order to enhance the adhesion on difficult fabrics.

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Recommended Drying:

50 Series inks will convection dry in 2-3 minutes at 100°C or air dry in 15-30 minutes in ambient conditions of +/-20°C.

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

Storage:

50 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:

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.

Colour Range Table:

000 TRANSP.	002	006	009	052	101, 110
111	207	213	214	222	224
229	239	307	309	400	404
407	420	431	439	440	500
507	510	600	601	607	610
670	700	710	800	807	810
820	824	829	877	900	

Colour Range:

50 Series inks are available in a range of base colours, as a four-colour process set, including Black, White and Transparent base.

Special colour matches can be supplied on demand.

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 the 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. November 2023.