

25 SERIES | Series AffordGlass 2 Component Screen Inks

Product Statement and Key Features:

25 Series two component solvent based inks are formulated to meet the demands of the industrial screen printer and are suitable for use on treated polyethylene and polypropylene containers and a wide range of often difficult materials. Prints exhibit outstanding mechanical and chemical resistance, resistant to acid, alkali, solvents, greases and lubricants, cosmetics, household products and detergents.

Wide range of adhesion.
High Gloss with good opacity.
Excellent resistance to heat.
Suitable for glass, metal, ceramics and polyamide surfaces.
For glass printing use 29 119 Glass Hardener.
Suitable for Indoor Use and outdoor use in selected shades.

25 Series Technical Data:

25 Series inks are a range of highly flexible 2 component inks, ideal for the most difficult of surfaces, often a choice when no other ink meets adhesion and flexibility requirements.

Printing and Curing Information:

Mesh selection is critical for optimum results, meshes in the range 90T - 140T are recommended, image type and fabric will dictate the most appropriate mesh grade, please consult with AFFORD technical services for further guidance.

Most stencil types are suitable, emulsions 11.170 (photopolymer) or 11.701 (diaz) are recommended.

Prints can be air dried, drying times between 30 minutes and 3 hours and will depend on the thinner used, do not stack prints immediately after printing and ensure the printed surface is fully dry before stacking. Air dried prints will not achieve full resistance properties until 7 days after printing.

Using Convection Oven Drying the recommended stoving schedule 100°C for 15 minutes, alternative stoving schedule may be considered depending on the chosen diluent and the surface being printed.

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

Pre-Production Testing:

Test	10% 29118		15% 29118		
	Air	Oven (15 ´ a 100-C)	Air	Oven (15 ´ a 100-C)	
Adhesion	Cross Hatch ASTM D-3359	5	4	5	3
Gloss	60°	90	92	87	94
Pencil Hardness		5H	5H	4H	4H
Chemical resistance	MEK	2	2	5	10
	Xylene	30	60	68	>100
	IPA	40	>100	>100	>100
	Water Immersion	50 min	15 min	80 min	120 min

These test results are compiled from laboratory tests carried out by Afford Industrial SL; further details available on request **

Thinning and Wash Up:

25 Series inks can be adjusted to suit print shop conditions and print speeds as follows: D-100 Fast Thinner, D-400 Standard Thinner and D-700 Retarder can be added to optimise on press print performance.

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

Additives and Mixing Instructions:

Mix Hardener 29.118 at 10-15% by weight depending on the material to be printed and the opacity of the colour.

For Glass mix the ink with 10-15% of 29-119 Glass Hardener.

Storage:

25 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 Industrial.

Recommended shelf life of this product is 36 months from the date of manufacture when stored under preferred conditions.

Colour Range Table as per Spanish Version:

 000 - TRANS-PARENT BASE	 002 - PROCESS YELLOW	 024 - PROCESS YELLOW EXTRA	 005 - PROCESS MAGENTA EXTRA	 006 - PROCESS BLUE	 009 - PROCESS BLACK	 052 - EXTRA MAGENTA	 101 - EXTRA WHITE
 109 - MATT WHITE	 110 - EXTRA WHITE OPAQUE	 111 - SILVER	 207 - FLUO YELLOW	 213 - MEDIUM YELLOW	 214 - REDDISH YELLOW	 222 - GOLD	 229- LEMON YELLOW
 239 - PRIMRO-SE YELLOW	 249 - GOLDEN YELLOW	 307 - FLUO ORANGE	 309 - ORANJE	 329 - LIGHT ORANGE	 339 - ORANGE EXTRA	 400 - BRILLIANT RED	 404 - EXTRA RED
 407 - FLUO RED	 420 - INTENSE RED	 439 - FIRE RED	 500 - MAGENTA EXTRA	 507 - FLUO MAGENTA	 510 - FUCHSIA	 600 - PERMA-NENT BLUE	 607 - FLUO BLUE
 610 - MEDIUM BLUE	 660 - ULTRA-MAR BLUE	 670 - ROYAL BLUE	 700 - VIOLET	 710 - PURPLE	 800 - PERMA-NENT GREEN	 807 - FLUO GREEN	 824 - DARK GREEN
 829 - EMERALD GREEN	 877 - LUMINE SCENT	 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 S.L. 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. Also, the user must make sure he complies with the current legislation situation of patents and third party rights when applicable. This data sheet supersedes all previous publications. January 2021.

02/2021

The information provided corresponds to our knowledge today; It is given in good faith but without guarantee. In addition, taking into account the wide variety of materials to print, the various equipment and procedures to realize it is your responsibility to check the validity of our products to achieve the goals that he intends, with the means and procedures he has. Similarly, the user must ensure compliance with current regulations, patent situation and rights of third parties where appropriate.

SCREEN INKS

SOLVENT

TECHNICAL DATA SHEET