



Offset

Sheet-fed TRADITIONAL (Oxidative) and UV-OFFSET

STAFIX[®]
GRIP

PRODUCT & PRINTING MANUAL

FEBRUARY 2017

*In this product & printing manual we will guide you through the various aspects of working with our **STAFIX®GRIP** products. Following this manual will help you to achieve the desired results and avoid potential difficulties.*

The Product & Printing Manual consists of the following segments:

- 1) Product Properties
- 2) Designing and Pre-press
- 3) Storage
- 4) Printing
- 5) Post-Press

1. PRODUCT PROPERTIES

STAFIX®GRIP is a glue-free sticker material that adheres to various clean and very smooth surfaces with a silicon adhesion layer. The material is removable without leaving any residue and reusable even up to 12 months. The material adheres on the unprinted side only.



STAFIX®GRIP OFFSET is available in white and clear and comes in sheets.

The **STAFIX®GRIP OFFSET** film is printable with UV-curable and Oxidative inks only. The film does not have a receptive primer and therefore it does not absorb any liquid.

SHELF LIFE

In the sealed original package, unprinted material can be stored:

STAFIX®GRIP OFFSET White Polypropylene: 18 months

STAFIX®GRIP OFFSET Clear PET: 24 months

PRODUCT DATA

STAFIX®GRIP OFFSET					
PRODUCT SPECIFICATION		WHITE		CLEAR	
Material		PP		PET	
Finishing		Matte		Optically clear	
		FILM	LINER	FILM	LINER
Weight	g/m ²	110	43	155	70
Thickness	µm	170	50	115	50
Total Weight	g/m ²	153		225	
Total Thickness	µm	220		165	

FORMATS

STAFIX®GRIP OFFSET sheets are available in the following formats:

WHITE:

- 450 mm x 640 mm
- 707 x 1000 mm

CLEAR:

- 707 x 1000 mm

FORMAT TOLERANCE

Size tolerance is 0,3% in length and width.

PACKAGING



WHITE

(450 X 640 mm)

- Boxes of 200 sheets
- Pallets of 4000 sheets (20 boxes)

(707 X 1000 mm)

- Boxes of 200 sheets
- Pallets of 2000 sheets (10 boxes)

CLEAR

(707 X 1000 mm)

- Boxes of 150 sheets
- Pallets of 1500 sheets (10 boxes)

2. DESIGNING AND PREPRESS

For pictures a raster of 60 - 70 l/cm is recommended. Create the black text of only 100% black for better registration. Avoid heavy deposits of ink for faster drying.

CLEAR MATERIAL

When printing an artwork on the clear material that will be used for window advertising, print the image mirror-wise and apply an additional covering white layer (either printed or a laminated layer) to reduce the transparency.

The sticker or poster is always installed from the unprinted side to the glass. The material adheres only from the unprinted side.

3. STORAGE

Store the unwrapped **STAFIX®GRIP** in the original package at 25% to 50% relative humidity and 15°C to 25°C temperature. The material should remain sealed in the original wrap until the **STAFIX®GRIP** material has warmed up to print-room temperature. Print-room recommended relative humidity is 50% to 60% and temperature is 18°C to 30°C. After use re-seal the remaining unused material in the original package.

	STORAGE CONDITIONS	PRINTING CONDITIONS
Humidity	25% to 50%	50% to 60%
Temperature	15°C to 25°C	18°C to 30°C

Proper acclimatization allows for better handling of the material and feeding through the press. The warming-up time depends on the box or pallet weight and the temperature difference between the warehouse and the print-room, see table below for more details:

PACKAGING		Weight	Temperature difference (°C)								HOURS
FORMAT		KG (APPROX)	5°	10°	15°	20°	25°	30°	35°	40°	
OFFSET sheets, 450 x 640mm (white)	One box (200 sheets)	10 KG	2	2	2	2	3	3	3	4	
	Full pallet (4000 sheets)	205 KG	10	30	45	60	75	85	90	95	
OFFSET sheets, 707 x 1000mm (white)	One box (200 sheets)	25 KG	3	3	3	3	4	4	4	5	
	Full pallet (2000 sheets)	265 KG	13	38	54	69	83	89	85	100	
OFFSET sheets, 707 x 1000mm (clear)	One box (150 sheets)	25 KG	3	3	3	3	4	4	4	5	
	Full pallet (1500 sheets)	275 KG	14	39	55	70	85	89	95	100	

Once the **STAFIX®GRIP OFFSET** sheets have reached the same temperature as the print room you can open the boxes. Let the material acclimatize with the open box for 2 hours prior to printing for better runnability and efficient feeding. After use, repack the remaining unused material in the original package.

4. PRINTING

Sheet-fed Traditional & UV-Offset Presses

Always run a test with the right inks and right conditions before printing a commercial job, specially for the first time printing on STAFIX®GRIP.

The **STAFIX®GRIP OFFSET** film is printable with UV curable inks and oxidative inks specially designed for printing on plastic substrates. The film does not have a receptive primer and therefore it does not absorb any liquid.

ON PRESS

Print with low levels of water. **STAFIX®GRIP OFFSET** absorbs no water and therefore very little water is needed (roughly less than half of what would be required with paper). If possible use metal plates that carry minimal water. The plate requires only enough water to keep the surface wet. For oxidative inks keep the alcohol level from 10 to 15% and follow the guidelines from the ink supplier. The acidity of the dampening solution should not be set too high, (PH value approx. 5.5). Do not apply too high print impression pressure in order to avoid stretching of the film.

INK USAGE

Print with low levels of ink density for faster drying and to avoid offsetting.

DRYING

TRADITIONAL OFFSET

Do not use IR dryers; the intensity of the IR lamps may cause the film to deform due to excessive heat. This will affect the registration. Additionally it may also extend the drying time. Use a larger grain powder about 40 - 50 microns to facilitate drying. Larger grain powder allows more air to pass between the sheets and therefore means faster drying.

Dry the sheets in stacks of 200-250 sheets. Offsetting can occur if stacks are too large or the powder grain size is too small. Too large stacks may also obstruct airflow slowing down significantly drying time. Plan for 24 - 48 hours of drying time. Make sure the drying room has proper ventilation; this will speed up the drying process.

UV-OFFSET

Adjust the UV-lamps to a level that still cures the inks but does not deform the film. When using a hybrid-printing machine turn off the IR lamps.

COATINGS

Varnish or coatings can be applied, Make sure you use previously tested varnishes and coatings.

5. POST-PRESS

STAFIX®GRIP OFFSET can be die-cut and kiss-cut. Always round the corners when die-cutting or kiss cutting because the inner-sharp corners might cause the film to tear, Perforating, binding and direct mail inserting is also possible. When trimming, use sharp, nick-free blades.

PACKING & SHIPPING

Protect the products well from dust when sending the finished goods to your client. Pack the material flat and do not fold the sheets.

USE & INSTALLATION

STAFIX®GRIP is recommended for temporary indoor use. The material adheres on average for 12 months to any very smooth surface, **STAFIX®GRIP** does not adhere to porous surfaces such as painted walls, PVC foam boards or untreated wood, make sure to test the material beforehand in the intended surface for your application before the actual printing.

For the installation, make sure the surface is clean. If needed clean the surface but do not use detergent or chemicals. Wet installation is recommended to eliminate possible air bubbles more easily, specially for larger pieces. Apply the film always from the unprinted side.

For more detailed instructions, please refer to our separate Use & Installation guidelines available at www.stafix.eu

Please contact Stafix for any questions related to the designing, storing, printing or general use of our products. We would be happy to assist you to reach the desired results with your print campaign.

All information is based on current quality levels. Stafix Ltd reserves the right to change the specifications of the contents as part of our continual product development. We recommend that the purchaser confirm product compatibility before the use of the product. Stafix Ltd will not accept any claims or warranty on material that has not been handled according to these instructions.