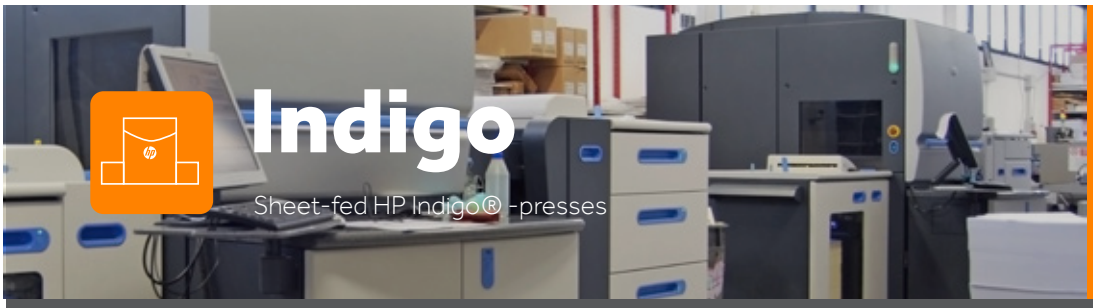

Indigo

Sheet-fed HP Indigo® -presses

STAFIX® STATIC

PRODUCT & PRINTING MANUAL FEBRUARY 2017

In this product & printing manual we will guide you through the various aspects of working with our STAFIX®STATIC 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®STATIC INDIGO is a glue-free sticker material that adheres to almost any clean, even surface with a static charge. The material adheres on average for 3 months and is easy to apply and removable without leaving any residue. The material adheres on the unprinted side only.

STAFIX®STATIC INDIGO is available in white and clear and comes in sheets. The material consists of two layers:

- 50 microns thick, polypropylene film (top layer)
- 200 g/m² PEFC-certified cardboard backer (bottom layer)

The film is fully attached to the paper backer by a low-tack glue.

STAFIX®STATIC INDIGO is designed for printing in sheet-fed HP Indigo® presses, the film has a special receptive coating for HP Indigo®s' ElektroInks™, the coating allows excellent ink transferability and ink adhesion.

STAFIX®STATIC film is 100% recyclable as a grade 5 plastic and doesn't release toxic gases into the environment if incinerated. The cardboard used for the backer is PEFC & FSC certified.

SHELF LIFE

In the sealed original package, unprinted STAFIX®STATIC sheets can be stored up to 12 months following our storage guidelines.

PRODUCT DATA

STAFIX®STATIC INDIGO					
		WHITE		CLEAR	
		FILM	BACKER	FILM	BACKER
Weight	g/m²	36.3	200	45.5	200
Thickness	mm	0.05	0.205	0.05	0.200
Total Weight	g/m²	236.3		245.5	
Total Thickness	mm	0.255		0.250	

FORMATS

STAFIX®STATIC INDIGO sheets are available in the following format:

- 320 x 460 mm

FORMAT TOLERANCE

Size tolerance is 0 / +5mm in machine and cross direction. Sheet flatness tolerance is 8mm.

CUSTOM SIZE ORDERS

For larger quantities, cost efficiency can be achieved by producing tailored size sheets. Please consult us regarding minimum quantities and delivery times.

PACKAGING

- Boxes of 100 sheets
- Pallets of 4000 sheets (40 boxes of 100 sheets)
- Test kit (boxes of 20 sheets)

2. DESIGNING AND PREPRESS

Do not use a Total Ink Coverage (TIC) greater than 240%. Use the Under Colour Removal (UCR) and Grey Component Replacement (GCR) if needed. Heavy deposits of ink should be avoided, especially near the edges of the artwork, to prevent the film from curling or rippling. Leave an unprinted border at the edges of the artwork if possible. Do not overlap a combination of two or more solid colours. Heavy layers of ink may cause the film to swell.

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

SHEET SIZE	MAXIMUM PRINTABLE AREA
320 x 460 mm	310 x 450 mm

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 to reduce the transparency. Rasterize the covering white to 95%. Additionally to the covering white you can use 240% maximum TIC on the colour build.

The sticker or poster is always installed from the unprinted side to the glass. The material adheres only from the unprinted side. Not all the presses have white inks available; consult with your printing house beforehand.

3. STORAGE

Store the unwrapped STAFIX®STATIC INDIGO in the original package at 25% to 50% relative humidity and 20°C to 27°C temperature. The material should remain sealed in the original wrap until the STAFIX®STATIC material has warmed up to print-room temperature. The print-room recommended relative humidity is 50% to 60% and the temperature 20°C to 27°C.

	STORAGE CONDITIONS	PRINTING CONDITIONS
Humidity	25% to 50%	50% to 60%
Temperature	20°C to 27°C	

The warming-up time depends on the pallet weight and the temperature difference between the warehouse and the print-room, see table below for more details:

PACKAGING		Weight	Temperature difference (°C)								
FORMAT		KG (APPROX)	**5°**	**10°**	**15°**	**20°**	**25°**	**30°**	**35°**	**40°**	HOURS
INDIGO sheets, 320 x 460 mm	One box (100 sheets)	5 KG	1	1	1	2	2	2	2	3	

Once the STAFIX®STATIC -sheets have reached the same temperature as the print room you can unwrap the pallet. Let the material acclimatize without the wrap / plastic bag for 2 hours prior to printing for better runnability and efficient feeding. After use re-seal the remaining unused material in the original package. Sudden changes of temperature and/or humidity may cause the cardboard to change size, and this could wrinkle the film.

4. PRINTING *(INDIGO Sheet-fed printing)*

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

ON PRESS

Fan the sheets properly prior to loading Place the sheets in the drawer for thicker substrates. For the 3000's and 5000's series set the blanket temperature to 145° -150°C. The best registration is achieved by using "one shot mode" when printing. When using "one shot mode" the blanket temperature can be set at 160° to 165°C. If you do not have "one shot mode" available, in order to improve printing registration run the material using a null cycle before printing.

STATIC ELIMINATORS: Do not use any antistatic devices including sprays, tinsel, or on-press electronics. These will reduce the static charge loaded in the material.

COATINGS: Do not use any varnish or aqueous coatings! Coatings will eliminate the static charge and curl the material.

5. POST-PRESS

STAFIX®STATIC can be die-cut and kiss-cut. Avoid long thin shapes as they might curl away from the surface and round the inner corners because the inner-sharp corners might cause the film to tear, always round the corners when die-cutting or kiss cutting. Perforating, binding and direct mail inserting is also possible. When trimming, use sharp, nick-free blades.

PACKING & SHIPPING

Protect the products well from humidity and dust when sending the finished goods to your client. Avoid packing the material with products that emit VOC's (Volatile Organic Compounds / Solvents) as they will reduce the static charge. Do not pack the material using vacuum-sealed packaging; the freshly printed ink can also emit VOC's. Ship the materials flat.

USE & INSTALLATION

STAFIX®STATIC adheres on average for 3 months to almost any even surface. The less the material is repositioned, the longer it stays. STAFIX®STATIC adheres from the unprinted side only and is bubble free. STAFIX®STATIC is recommended for temporary indoor use. Please smooth the material against the surface applied, removing the air between the surface and the film, for better adherence. Avoid placing the material onto freshly painted walls, the VOC's emitted by the fresh-paint reduce the static charge of the film. 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.

mailing address: Stafix Ltd | Konttisentie 8 B | 40800 Vaajakoski | Finland **web** www.stafix.eu **e-mail** info@stafix.fi **switchboard** +358 10 322 4210