

Water-based flexographic ink

IND is a range of water-based inks designed for flexographic printing. These inks have excellent press stability to minimize dot gain and ensure better print quality throughout the run. IND inks require no adjustments and are therefore easy to use.

Application

The IND range is not suitable for synthetic materials and non-absorbent substrates. For prints on synthetic substrates, please refer to the **FI** series data sheet.

IND inks are compatible with our range of UV coatings such as UV-10000. The use of this UV coating increases the brightness of the print while promoting maximum resistance to external elements.

Printing

- **Volume indication** : 7-9 cm³/m² (anilox : 300-350 lines)

For Process Printing, the use of anilox in 450-700 lines (3-5 cm³/m²) can be suggested.

- **Drying** : IR and/or forced air tunnel
- **Directions for use** : Stir well before use

Ink properties

- **Physical properties**
 - Flexographic water-based ink
 - Aspect/color : Available in the Pantone and process colors (See table on light fastness)
 - % solids : 30 – 50 % (depending on the selected color)
 - Viscosity : 25 – 30 sec. (4 Ford Cup)
 - pH : 7-8

IND inks are supplied press-ready. However, additives are available to stabilize and adjust PH viscosity (X803), delay drying (RS-3221), accelerate drying (AS-99.9), or prevent excessive foaming (AM-39).



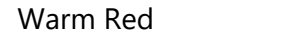






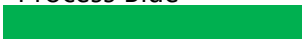
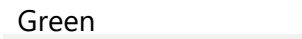
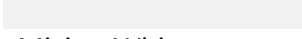
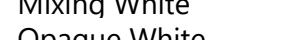



- **Storage**
 - 12 months after the ship date in a closed container
 - Keep in a ventilated space between 5°C – 30°C
 - Do not expose to light
- **Packaging**
 - Black pail (5 / 10 / 20 liters)

Light fastness

IND inks are available in all Pantone® shades and the following process colors.

Please note that IND inks are inherently lightfast. The table below shows which colors are recommended in the RL range and which colors are highly resistant and available in the IND range.

* The lightfastness rating is based on the Blue Wool scale. This resistance is also linked to the ink layer, the color mix, the deposit and the substrate.

Couleurs	IND			RL**		
	Code	BW Solid Print	BW Halftone	Code	BW Solid Print	BW Halftone
 Yellow	IND.Y1	5-6	4-5	RL.Y1	7	6
 Warm Red	IND.R2	5	4	RL.R2	7	6
 Rubine	IND.R3	4-5	3	RL.R3	6	4
 Rhodamine	IND.R4	3	2	RL.R4	7-8	7
 Purple	IND.P5	4-5	5	RL.P5	7-8	6-7
 Violet	IND.V13	4-5	3-4	RL.V13	7-8	6-7
 Reflex Blue	IND.B6	3-4	2-3	RL.B6	6-7	5-6
 Process Blue	IND.B7	7-8	6-7	RL.B7	7-8	6-7
 Green	IND.G8	7-8	6-7	RL.G8	7-8	6-7
 Mixing White	IND.W10	n/a	n/a	RL W10	n/a	n/a
 Opaque White	IND.OW11	n/a	n/a	RL OW11	n/a	n/a
 Dense Black	IND.K9	7-8	6-7	RL.K9	8	7
 Process Yellow	IND.Y100	5-6	4-5			
 Process Magenta	IND.M300	3	2			
 Process Cyan	IND.C700	7-8	6-7			
 Process Black	IND.K900	7-8	6-7			

BW Index: 8 = excellent, 1 = low

** For comparison purposes, a light resistance equivalence of the RL range is given. Please refer to the data sheet of this range for more information.

Cleaning

Spring also supplies cleaning solutions :

- **NC 32** General cleaner for water-based inks/coatings
- **SoftClean** Maintenance cleaner for anilox cylinders; for UV and water-based inks/coatings