

## SOLID PRE-INK NC COLORS Technical Data

Solid Pre-Ink NC Colors are pigment concentrated 100% solventless solid systems based on modified Nitrocellulose as the main binder.

Inks ready to use are obtained from Solid Pre-Ink NC Colors by mixing with NC and solvents as per Solid Pre-Ink Roto/Flexo Table or with a suitable varnish. Time for mixing, according to the type of equipment, is usually less than 30 minutes.

### Types of obtained inks

- Monosolvent Ethyl Acetate roto inks for the maximum recovery of Ethyl Acetate
- Plurisolvent inks for roto and flexo
- Flexo inks also for photocolors

### Properties of obtained Inks

- High quality
- High transparency
- No need of adhesion promoter
- Excellent adhesion
- High definition of half tones
- Easy cleaning of engraved cylinders and anyloxes
- High gloss
- High heat resistance
- High scratch resistance
- Not suitable for pasteurization
- Outside printing
- Reverse printing for lamination
- Double sided printing: contact studioEFFE
- Photocolor flexo applications

### Printing Process

- Roto and flexo

### Substrates

- Treated polyethylenes
- Treated polypropylenes
- NC coated films
- NC coated foils
- Paper
- Chemical treated PET
- Acrylic coated films
- PVC: contact studioEFFE for special additive
- Other substrates: contact studioEFFE

### Printing Aids

- No special aids are necessary except those well known, such as solvents and retarders
- Adhesion promoters are not required, but can be used.

### Viscosity of the obtained Inks

- 30 to 60 seconds Ford 4 cup at +/- 2% solid concentration as per Solid Pre-Ink Roto/Flexo table.

### Solids of the obtained Inks

- Solids of the ready inks are as per concentration of Solid Pre-Ink Roto/Flexo table +/- 2%.

### Available colors:

Each color is followed by three digits according to the International Color Index of the pigments.

- Example: NC 130 = PY 13  
NC 153 = PB 15:3
- Yellow: NC 130, NC 140, NC 740, NC 830
  - Orange: NC 500, NC 340
  - Red: NC 531, NC 481, NC 482, NC 571, NC 122, NC 810
  - Violet: NC 300, NC 230
  - Blue: NC 153, NC 154, NC 270
  - Green: NC 700
  - Black: Black

Special colors: contact studioEFFE

### Packaging

- 28 Kg cardboard boxes.

### Service Life and Storage:

- In excess of one year if kept at room temperature (5 to 30°C).

### Note:

Above information cannot include all variables and factors influencing the applications and usages of inks. Therefore, it is up to the user to proceed with rational carefulness and to contact studioEFFE for assistance.

SOLID PRE-INK NC COLORS TDS OCT. 2013

**SOLID PRE-INK NC COLORS****ROTO/FLEXO TABLE**

INK	Solid Content		Solvent					
	PRE-INK	NC <sup>1</sup>	ROTO		FLEXO			
			EA	TOT	EA	IPA	PM	TOT
Yellow 130	17,82	10,17	72,01	100,00	15,50	46,51	10,00	100,00
Orange 500	22,60	9,00	68,40	100,00	14,60	43,80	10,00	100,00
Red 481	21,90	10,90	67,20	100,00	14,30	42,90	10,00	100,00
Red 482	22,32	10,68	67,00	100,00	14,25	42,75	10,00	100,00
Red 571	25,25	8,78	65,97	100,00	13,99	41,98	10,00	100,00
Violet 230	18,90	10,00	71,10	100,00	15,28	45,82	10,00	100,00
Violet 300	21,54	11,40	67,06	100,00	14,27	42,79	10,00	100,00
Blue 153	22,44	9,11	68,45	100,00	14,61	43,84	10,00	100,00
Green 700	22,44	9,11	68,45	100,00	14,61	43,84	10,00	100,00
Black	25,00	9,00	66,00	100,00	14,00	42,00	10,00	100,00

Note:

1. Contact studioEFFE.
2. IPA can be substituted all or in part with Ethyl Alcohol.

INK	Solid Content		Solvent					
	PRE-INK	NC <sup>1</sup>	ROTO		FLEXO			
			EA	TOT	EA	IPA	PM	TOT
Yellow 130	Kg 28,00	15,98	113,15	157,13	24,36	73,08	15,71	157,13
Orange 500	28,00	11,15	84,74	123,89	18,09	54,26	12,39	123,89
Red 481	28,00	13,94	85,92	127,86	18,28	54,85	12,79	127,86
Red 482	28,00	13,40	84,05	125,45	17,88	53,63	12,55	125,45
Red 571	28,00	9,73	73,15	110,88	15,51	46,55	11,09	110,88
Violet 230	28,00	14,82	105,33	148,15	22,63	67,89	14,82	148,15
Violet 300	28,00	14,48	87,18	129,99	18,54	55,64	13,00	129,66
Blue 153	28,00	11,37	85,41	124,78	18,23	54,70	12,48	124,75
Green 700	28,00	11,37	85,41	124,78	18,23	54,70	12,48	124,75
Black	28,00	10,08	73,92	112,00	15,68	47,04	11,20	112,00

Note:

1. Contact studioEFFE.
2. The second column indicates the standard boxes for production in drums.
3. For roto Ethyl Acetate can be in part substituted by Ethyl Alcohol and Isopropyl Alcohol.