Pemla
ink technologies d'encre

TECHNICAL BULLETIN

i-FAST
FLEXOGRAPHIC INKS FOR OUTDOOR APPLICATIONS

***i*-FAST** is an alcohol based printing ink system designed for the surface printing of film for outdoor applications. ***i*-FAST** exhibits excellent printability and good colour strength for lightfast colours as well as outstanding weatherability.

Characteristics

- Offers good adhesion on many treated substrates (minimum surface tension 38 dyne/cm^2)
- Clean and sharp printing
- Good gloss
- Good rub and scuff properties when used with ***i*-FAST LS Overprint Varnish FSPE09326**
- Outstanding weather resistance and lightfastness
- Low slip

Substrates

- Treated polyethylene

Typical Applications

- ***i*-FAST** is designed for the printing outdoor of industrial and consumer applications, such as grass seed, soil, compost or fertilizer
- ***i*-FAST** may be used for printing cedar mulch bags when overprinted with ***i*-FAST LS Overprint Varnish (FSPE09326)**
- ***i*-FAST** may be used for other outdoor applications when printed on film

Revised: January 19, 2011

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Base Colours

• ***i*-FAST Extender**	FSDE04108
• ***i*-FAST White**	FSDW09327
• ***i*-FAST Yellow**	FSDY06542
• ***i*-FAST Y/S Red**	FSDR04112
• ***i*-FAST Pink**	FSDR04114
• **i-FAST Violet**	FSDP04115
• ***i*-FAST Blue**	FSDB04116
• ***i*-FAST Green**	FSDG04117
• ***i*-FAST Black**	FSDK04118

Process Colours

***i*-FAST Process Extender**	FSDE04123
***i*-FAST Process Yellow (3.5 bcm)**	FSDY06552
***i*-FAST Process Magenta (3.5 bcm)**	FSDR04120
***i*-FAST Process Cyan (2.5 bcm)**	FSDB04121
***i*-FAST Process Black (2.5 bcm)**	FSDK04122

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Technical Data

Viscosity	Shipping Viscosity: 35 - 55 seconds Signature Zahn #2
	Running Viscosity: 23 - 27 seconds Signature Zahn #2
Anilox	Line Colours: Good colour strength may achieved with volumes of 6.0 bcm or more. Some strong colours may require more volume due to the nature of the weather resistant pigments used.
Plates	Buna N (synthetic rubber), natural rubber & photopolymer
Reducer	Fast: 60/30/10 2A alcohol/n-propanol/n-propyl acetate
	Regular : 45/45/10 2A alcohol/n-propanol/n-propyl acetate
	Slow : 60/30/10 n-propanol/2A alcohol/n-propyl acetate
Clean up	Same as Reducer
Shelf Life/ Storage	Approximately one(1) year depending on storage conditions and use. Store between 15ºC to 30ºC. Do not allow to freeze. Agitate well before use.

CAUTION * CAUTION * CAUTION * CAUTION * CAUTION * CAUTION * CAUTION * CAUTION

1. Resistance and slip properties reach their maximum 48 hours after printing. Any testing on printed film should take this into account.
2. Cannot be laminated.
3. Due to the availability of a wide range of substrates, it is recommend that the substrate be pre-tested and verified at the beginning of the press run.
4. The substrate must be treated to at least **38 dyne/cm²** for the ink to have acceptable adhesion and rub resistance.
5. Over reduction of this ink system may result in the loss of certain resistance properties. To maintain optimal resistance properties, do not reduce the ink below the minimum running viscosity noted above.
6. Slip and resistance properties are optimized through the use of an overprint varnish.
7. Ink film properties improve with increasing ink film thickness. It is recommended that anilox volume be the maximum for the type of printing (ie: solid or screen) being done.
8. *i*-Fast inks may fail when exposed to cedar oil under conditions of high temperature and pressure. FOR THIS REASON, *I*-FAST INKS MUST BE OVERPRINTED WITH **i-FAST LS OVERPRINT VARNISH (FSPE09326)** WHEN USED FOR CEDAR MULCH BAGS.

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