

TECHNICAL BULLETIN

i-Wrap

Solvent Based Flexographic Ink for Shrink Wrap

i-WRAP is an alcohol based flexographic ink series formulated for the printing of heat shrinkable films. It is designed to be reverse printed mainly on wide web presses. This ink is designed to provide a tough ink film for optimal scuff resistance to meet the demands of modern high speed shrink tunnels.

Characteristics

- Good adhesion to a wide variety of non-porous substrates
- Excellent rub and scuff resistance
- Clean, sharp printing for line and screen work
- Suitable for surface printing under normal rub conditions

Substrates

- Treated polyethylene shrinkable films

Typical Applications

- ***i-WRAP*** is formulated for reverse print shrink wrap applications. ***i-WRAP SURFACE*** inks may be used for surface print shrink applications.
- ***i-WRAP*** is available in a slow dry (SL) version for combination (solid/screen) printing.

Revised: January 17, 2011

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Base Colours

- *i-WRAP SL* Extender SSDE00795
- *i-WRAP SL* Yellow SSDY00510
- *i-WRAP SL* Orange SSDY00511
- *i-WRAP SL* Warm Red SSSDR00512
- *i-WRAP SL* Rubine SSSDR00513
- *i-WRAP SL* Rhodamine SSSDR00514
- *i-WRAP SL* Violet SSDP00515
- *i-WRAP SL* Blue SSDB00516
- *i-WRAP SL* Green SSDG00517
- *i-WRAP SL* Black SSDK00518
- *i-WRAP* White SSDW03947

Process Colours

- *i-WRAPPRO* Process Extender SSDE00463
- *i-WRAPPRO* Process Yellow (2.5 bcm) SSDY00464
- *i-WRAPPRO* Process Magenta (2.5 bcm) SSSDR00465
- *i-WRAPPRO* Process Cyan (2.5 bcm) SSDB00466
- *i-WRAPPRO* Process Black (2.5 bcm) SSDK00467
- *i-WRAPPRO* Process Yellow (1.89 bcm) SSDY04437
- *i-WRAPPRO* Process Magenta (1.89 bcm) SSSDR04438
- *i-WRAPPRO* Process Cyan (1.89 bcm) SSDB04439
- *i-WRAPPRO* Process Black (1.89 bcm) SSDK04440

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Technical Data

Viscosity	Shipping: 42 – 47 seconds Signature Zahn#2 Printing: 22 – 25 seconds Signature Zahn #2
Anilox	Colours: Strong solid colours may be printed with volumes of 4.0 bcm or more White: volumes of 7 – 8 bcm are recommended
Plates	Synthetic rubber, natural rubber or photopolymer
Reducer	Fast : 60/30/10 2A alcohol/n-propanol/n-propyl acetate Normal : 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 1 year, depending on storage conditions and use. Store at 15-30°C. Do not allow to freeze. Mix well before use.

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

1. Cannot be laminated.
2. Due to the wide range of substrates and treatment levels on the market, it is recommended that stock be pretested prior to printing to ensure proper ink adhesion and resistance properties.
3. The substrate must be treated to at least 38 dyne for the ink to have acceptable adhesion and rub resistance.
4. Cannot be heat sealed.
5. Metallic inks are stable for a maximum of six (6) months. It is recommended that these products be purchased at time of need and used up to avoid the possibility of chemical reaction during storage.

Pemla cannot anticipate all conditions under which this information and our products may be used. All printing applications should be tested before using on a press. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Please contact Pemla technical personnel for more information.

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