

# PHOENIX LAMINATION INK SYSTEM

THE EPITOME OF REGENERATION AND LIFE



Hi-Tech Inks identified a need for a high performance universal lamination ink in the flexible packaging market. Reliability is a must in this area, where a number of differing constructions are constantly being developed.

To keep abreast of these developments, Hi-Tech Inks has developed “Phoenix” a new ink system that displays impressive bond strengths (over 500g per 15mm) which allows for lamination constructions of the highest quality.

**Johannesburg** Tel: +27 11 372 4651 Email: [info.jhb@hitechinks.co.za](mailto:info.jhb@hitechinks.co.za)

**Cape Town** Tel: +27 21 532 0323 Email: [info.cape@hitechinks.co.za](mailto:info.cape@hitechinks.co.za)

**Durban** Tel: +27 31 465 0601 Email: [info.dbn@hitechinks.co.za](mailto:info.dbn@hitechinks.co.za)

[www.hitechinks.co.za](http://www.hitechinks.co.za)



**Trials have been carried out using both the flexographic and gravure processes at a number of converters on a myriad of substrates with immeasurable results achieved all round.**

**Phoenix shows success in retortable packaging, shrink, pasteurisation as well as standard lamination applications.**

**The system also has properties exceeding alternate products currently available in the global market place.**

#### **Properties:**

- Excellent printability, high strength and resolubility
- Excellent bond strengths
- Low solvent retention/low odour
- Can run at speeds from 50 to 300 meters per minute
- Phoenix inks must only be used after trial and approval and are suitable for food packaging
- Suitable for retort and boil in bags, but here again, trial and approval are a necessity
- Extremely stable
- Better productivity due to higher press speeds than conventional ink

#### **Substrates:**

Applicable on all Polyesters (treated, chemically treated, PVDC coated), Nylon, PT Cellophane, PVDC coated films, Polyethylene, PVC Shrink/Stretch and with a small addition of Tech varnish applicable on BOPP. This ink system is suitable for adhesive, extrusion, solvent less lamination and solvent base lamination (Please consult our technical team before use).

#### **Printability:**

This ink system has excellent rewettability and has excellent reproduction of half tone even at high speed.

#### **Reduction:**

FAST : EA  
NORMAL : Special Phoenix Reducer  
SLOW : Dowanol or Ethoxy Propanol

#### **Wash Up:**

Meths/Dowanol

#### **Press Speeds:**

Phoenix inks will print from 50 to over 250m/minute according to reducers used.

#### **Colour Range:**

A full range of Phoenix colours is available.

Note: Any particular pigment resistance requirements (e.g. light fastness, chemical resistance etc.) should be identified at time of ordering.

#### **Supply Specifications:**

Colours : 40-45 seconds Zahn 2  
Mediums : 30-35 seconds Zahn 2

