

# METALTECH RETENTION



**A gravure printing ink developed for coated paper and board printing to achieve excellent reflectance and brilliance for metallic performance and finishes comparable to metalised paper. Initially developed for gravure printed beer labels the product can be modified for flexographic systems.**

## Features

A high gloss, high brilliance silver or modified gold for high-speed gravure surface print.  
Yields spectacular reflectance that cannot be duplicated by any other printing processes.

## Properties

- Good rub resistance
- Good scuff resistance
- Low solvent retention
- Low tack (no blocking or offsetting in reel form)
- Low odour
- Excellent flexibility
- Excellent reflectance (brilliance)
- Good heat resistance 180°C
- Light fast
- Oil resistant
- Low foaming characteristics
- Non-toxic
- High slip properties
- Good penetration (caustic penetration within 30 seconds)
- Retention in high alkali solutions
- Adhesion and tape release

## Stability

Excellent printability and wetting  
This product is stabilised against agglomeration and significant increase in viscosity. A 5 to 10% increase in viscosity is normal over a 180 day period.

## Viscosity

Supply viscosity 32 to 36 seconds Zahn #2 @ 25°C  
Print viscosity 18 to 26 seconds Zahn #2 @ 25°C

## Reducer

Ethyl Acetate/Normal Propyl Acetate blend 2:1 ratio can be utilised depending on print speeds.  
Add Ethyl Acetate for faster print speeds. Add Normal Propyl Acetate to retard drying speeds.

## General

Can be supplied as a silver with additions of colour concentrates to change to gold or bronze shades (2 pack) or as a specifically matched colour (1 pack). Metallic colours can also be manufactured.

## Wash up

Ethyl Acetate can be utilised

## BCF

These inks have been formulated in accordance with the recommendation of the British Coatings Federation.

## Waste disposal

Care should be exercised in the disposal of printing ink waste. This should be carried out in accordance with good industrial practice observing all the appropriate regulations including the relevant guideline notes to the Environment Conservation Act and Regulations (73/1989).

## Health and Safety

Full details appear on the Material Safety Data Sheets

The information outlined in this data sheet is given in good faith but does not constitute a guarantee. Since conditions of handling and application are beyond our control, the converter should assure himself of the suitability of the product for the particular end use.

It is recommended that advice be taken from Hi-Tech Inks' Technical Department for all new applications and it is preferable for trials to be carried out before full production runs are commenced.