

Technical Data Sheet

Zydeco™ UV Bases

General description

Zydeco™ ink bases are a unique formaldehyde-free, fluorescent polymer specifically formulated for use in energy curable systems.

They produce bright, high gloss fluorescent inks that have excellent printing characteristics, making them ideal for use in flexographic and lithographic, UV and EB curable inks.

Applications

- Flexographic and lithographic inks, UV and EB curable inks.

Product features

- Stronger, brighter colors.
- Excellent tack stability.
- Advanced rheology for better press performance.
- Faster setting & drying.
- Non-chalking.
- Ultra low emulsification properties.
- Improved ink transfer characteristics.
- Reduced VOC levels.

Available Colors

Product Code	Color
ZYB-00B	Invisible Blue Base
ZYB-17	Saturn Yellow® Base
ZYB-802	Pantone® 802 Green Base
ZYB-803	Pantone® 803 Yellow Base
ZYB-804	Pantone® 804 Orange Base
ZYB-805	Pantone® 805 Red Base
ZYB-806	Pantone® 806 Pink Base
ZYB-807	Pantone® 807 Magenta Base

Packaging:

5 Gallon (19L) Pails = 45 lb (20kg)

Storage & shelf life:

12 months when kept in closed original packaging in a dry place at ambient temperature not to exceed 100°F. Packages containing Zydeco bases should have a headspace of at least 10%.

Safety & regulatory:

Safety Data Sheet available on request.

Physical properties

Delivery form	High Viscosity Paste
Average particle size	± 5.0 µm
Hegman grind	6.5 Minimum
Decomposition temp.	>120°F (248°C)
Specific gravity	1.18 lb/gal

Processing & Heat Stability

Heat stability

120°F (49°C)

Zydeco Colors and inks based upon Zydeco Colors contain reactive components. During the manufacturing of these printing inks the temperature of the batch should not exceed 120°F 370°F (190°C)

Lightfastness

Zydeco Colors exhibit good lightfastness for indoor applications, but their exterior lightfastness is limited. Individual tests should be conducted to determine if the use of Zydeco bases will meet the lightfastness requirements in a specific application

Usage

For optimum results, all oligomer and monomer combinations should be screened for color, curing speed, and printing and adhesion properties. Proper selection of oligomers, monomers, and curing agents is necessary to maximize fluorescent color brightness. Testing has shown that some acrylate urethane oligomers and acid functional, acrylate oligomers produce cleaner, brighter colors in finished ink formulations. Thorough testing is necessary to develop the best ink formulation for each application.

Small amounts of non-fluorescent color can be used effectively without significantly detracting from color brightness. Increases in color strength will usually compensate for any loss in brilliance. Additions of 1% or less of conventional dry color in the finished ink will result in a noticeably stronger ink without a significant change in the hue or brightness. Lightfastness will be improved with the addition of a conventional pigment of a similar hue to the fluorescent component.

Fluorescent colors are sensitive to ultra-violet light used to cure the inks. Assigning the fluorescent colors to the last printing stations on the press can minimize color shift and darkening. Pinks and reds are more sensitive than yellows and oranges and should be the last colors that are printed.