

Midacure® UV 42516 Series

UV Flexo Printing Inks

Advancing Label & Packaging Printing

Midacure® UV 42516 Series inks are specifically developed to expand market opportunities for narrow- and mid-web printers within the Label and Packaging industry. These inks are engineered with built-in performance properties that allow printers to achieve fine line screens and clean reverses using high LPI/low BCM anilox rolls, while significantly reducing ink film weight—delivering print quality that rivals offset and digital technologies.

Additional benefits include excellent fusing adhesion to challenging film substrates, low viscosity with smooth, free-flowing rheology, low odor, and varnish-like gloss. The formulation minimizes or eliminates plate swelling and supports press speeds of up to 150 meters per minute.

The **Midacure® UV 42516 Series** is also silicone- and wax-free. This formulation enhances trapping performance and supports hot stamping, thermal overprinting, lamination, and improved durability—maximizing natural bonding characteristics.

Profitability Enhancement

One of the most effective ways to reduce ink costs is by lowering overall ink consumption. The **Midacure® UV 42516 Series** enables printers to run thinner ink films, remix unused colors, increase press speeds, and reduce energy usage—resulting in measurable cost savings.

Rather than cutting costs by lowering pigmentation levels or using lower-grade raw materials, these inks are designed to perform at extremely low film weights while maintaining high press speeds and superior print quality. By integrating **Midacure® UV 42516 Series** into your printing operations, you can achieve greater efficiency and improved profitability across your processes.

- Increase in Ink Mileage
- Maximum Press Speeds
- Widest Process Window of Substrate Choice

Features

- Low viscosity
- High productivity
- Excellent curing properties
- High color strength
- Good adhesion to plastic substrates
- Low migration values
- Extreme pigmentation
- Non-silicone and wax free
- Low odor
- High speeds
- Free flow rheology
- Benzophenone-free available upon request
- High transparency and gloss

Applications

- Prime Label
- Shrink Sleeve
- Folding Carton
- Pharmaceutical
- Aluminum Foils
- Many others

Additives

- FUV-001: UV thinner to reduce viscosity (Recommended addition 2%-5%)
- FUV-002: Curing aid to increase curing speed (Recommended addition 2%-5%)
- FUV-003: Adhesion Promoter (Recommended addition 1%-5%)
- FUV-051: Transparent UV ink used to reduce color strength (as per printer's requirement)

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Progress in Label & Packaging Printing

Color Availability

Midacure® UV 42516 Series inks contain new cleaner, transparent pigmentations specifically designed for UV Flexo. This allows the **Midacure® UV 42516 Series** system problem free color matches along with the ability to achieve a wider color spectrum . **Midacure® UV 42516 Series** Process inks are formulated to print at various density and dot-gain levels.

PROCESS INKS

Description	Product Code	** Blue Wool Fade	*Viscosity (sec)
Yellow	4251603	4	69
Magenta	4251621	4	30
Cyan	4251605	8	66
Black	4251610	8	50

BASE INKS

Description	Product Code	Blue Wool Fade	Viscosity (sec)
Yellow	301/4251614	8	30
Warm Red	101/4251622	4	57
Rubine	102/	4	50
Rhodamine	750/4251608	7	105
Purple	775/4251609	7	90
Violet	700/4251607	3	20
Gold	950/4251612	-	40
Silver	975/4251613	-	35
Violet	700/4251618	7	105

BASE INKS

Description	Product Code	Blue Wool Fade	Viscosity (sec)
Reflex Blue	600/4251606	7	48
Blue	501/4251615	8	34
Green	400/4251604	8	37
Orange	200/4251602	4	25
Blue 072	072/4251616	7	30
Blue 072	072/4251619	8	72
Dense O.Yellow	4251623	8	63
Extender	4251121	N/A	23

HIGH OPACITY

Description	Product Code	Viscosity (sec)	Notes
Opaque White (silicone-free)	4251311	45	Superior opacity, anti-pinhoing, excellent laydown, great coverage, high whiteness and low odor. Excellent durability and adhesion to prime label and packaging stocks.
White (silicone-free)	4251211	37	Good opacity, anti-pinhoing, excellent laydown, great coverage, high whiteness and low odor. Excellent durability and adhesion to prime label and packaging stocks.
Shrink Sealant White Sv2 (contains silicone)	4251611	40	Superior opacity, anti-pinhoing, excellent laydown, great coverage, high whiteness and low odor. Excellent durability and adhesion to most common shrink sleeve substrates.
Primer White	4251117	31	Superior opacity, anti-pinhoing, excellent laydown, great coverage, high whiteness and low odor. Excellent durability and adhesion to most common substrates.

*Viscosity (sec) by Zahn Cup-4 @ 25°C

** Blue Wool Fade range 1 through 8 where 8 is the best light fastness value

