

Midacure® UV 42511 Series

UV Flexography

Driving Progress in Label & Packaging Printing

Midacure® UV 42511 Series inks have been developed to help narrow- and mid-web printers broaden their capabilities in the label and packaging sector. Their advanced formulation delivers built-in performance that enables exceptionally fine detail reproduction and clean reverse text when using high-LPI, low-BCM anilox rolls, while substantially reducing ink laydown — producing results comparable to offset and digital print quality. These inks also provide outstanding adhesion to difficult film substrates, along with low viscosity and smooth flow characteristics for easy press performance, minimal odor, and a high-gloss finish similar to varnish. The formulation is designed to minimize plate swell and supports press speeds of up to 150 meters per minute.

In addition, the series is formulated without silicone or wax, improving color trapping and enabling downstream processes such as hot stamping, thermal overprinting, and lamination, while enhancing overall durability through strong natural bonding.

Profitability Enhancement

Reducing total ink usage is one of the most effective ways to lower operating costs. This series allows printers to run thinner ink layers, reuse leftover colors, increase production speeds, and decrease energy consumption — resulting in tangible savings. Rather than compromising quality by lowering pigment levels or using inferior raw materials, these inks are engineered to perform efficiently at very low film weights while maintaining high productivity and superior print results. Integrating **Midacure® UV 42511 Series** into production workflows can significantly improve operational efficiency and overall profitability.

- Greater ink mileage
- Maximum press productivity
- Broad compatibility with a wide range of substrates

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
- 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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Color Availability

Midacure® UV 42511 Series inks contain new cleaner, transparent pigmentations specifically designed for UV Flexo. This allows the **Midacure® UV 42511 Series** system problem free color matches along with the ability to achieve a wider color spectrum . **Midacure® UV 42511 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	4251103	4	33
Magenta	4251101	4	35
Cyan	4251105	8	55
Black	4251110	8	45
Black	4251310	8	60

BASE INKS

Description	Product Code	Blue Wool Fade	Viscosity (sec)
Yellow	301/4251114	8	30
Warm Red	101/4251119	4	35
Rubine	102/4251116	4	40
Rhodamine	750/4251108	7	105
Purple	775/4251109	7	90
Violet	700/4251107	-	105
Gold	950/4251112	-	40

BASE INKS

Description	Product Code	Blue Wool Fade	Viscosity (sec)
Reflex Blue	600/4251106	7	35
Blue	501/4251115	8	35
Green	400/4251104	8	45
Orange	200/4251102	4	20
Blue 072	072/42514009	N/A	27
Silver	975/4251113	-	35
Extender	4251121	7	20

HIGH OPACITY

Description	Product Code	Viscosity (sec)	Notes
Opaque White (silicone-free)	4251311	45	Superior opacity, anti-pinholing, 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-pinholing, excellent laydown, great coverage, high whiteness and low odor. Excellent durability and adhesion to prime label and packaging stocks.

*Viscosity (sec) by Zahn Cup-4 @ 25° c

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

