

Ultradisc UVOD sets new Standards in Disc Decoration New Frontiers achieved in Ink Rheology and Cure Speed for Sensitive Disc Formats

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Ultradisc UVOD has especially been developed for DVD and future formats and meets the highest demands in Optical Disc Printing.

Top Quality

Its first-rate properties such as very low radial deviation values together with very fast curing and the constant stable viscosity during printing make UVOD the ideal choice, especially when used in modern high-speed presses.

Applications

UVOD may be used on all current known formats such as CD, CD-R/RW, DVD und DVD \pm R/RW. The low radial deviation values also guarantee first-class results for the new high definition format Blu-Ray.

UVOD – Features and Benefits

- Unrivalled radial deviation values, UVOD 270 market-leading with 0.05° - 0.1°
→ guarantees a large production window and fewer rejects
- Highly reactive for fast printing speeds
→ provides increased output and efficiency
- Optimum rheological and thixotropic adjustment, press-ready
→ excellent printing characteristics and simple handling
- Homogenous, glossy ink film with perfect ink flow
→ for safe overprints, and an excellent appearance

UVOD Range

Art.-No. 3731 57/58 xxx

- 9xx** 13 Ultracolor Basic Shades
- 170, 171, 172, 173, 179** Opaque White Versions
- 270** High Gloss White for Blu-ray discs
- 180** Opaque Black
- 4x5** 4-Clr-Process Shades with low density
- 4x8** 4-Clr-Process Shades with high density
- 409** Transparent Base
- 904** Special Binder
- 912** Overprint Varnish
- 914** Varnish, satin-transparent
- ML** Matt Varnish
- 3xx** Fluorescent Shades

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New Frontiers achieved in Ink Rheology and Cure Speed for Sensitive Disc Formats

UVOD Opaque Whites

The modern rheology of the UVOD Opaque White versions allows production speeds up to 135 units/min.

All below mentioned radial deviation values were measured with a Deviation Analyzer DA-I (Dr. Schenk).

UVOD 170 Opaque White (ideal for DVD) The extraordinary optical effect is achieved by a „whiter“ white and a homogeneous surface.

Both of these properties support the excellent overprintability with waterless offset printing inks on combination presses. The extremely low radial deviation value of 0.15° exhibits insignificant influence offering a large production window.

UVOD 171 Opaque White (high gloss) In addition to a higher gloss and improved viscosity we have optimized the overprintability with waterless offset printing inks.

UVOD 171 has been especially developed for CD formats but is also suitable for DVD. The radial deviation value of 0.4° is well within the specifications of DVD production

UVOD 172 Opaque White (satin gloss) In order to meet individual customer wishes we additionally offer a satin gloss Opaque White, the UVOD 172.

The compatibility with waterless offset printing inks was thoroughly tested and is excellent. The radial deviation value of 0.25° is well within the specifications of DVD production.

UVOD 173 Opaque White (High-Speed) A special white for the newest generation screen and offset combination presses.

UVOD 173 is especially adapted for printing speeds of up to 135 units/min. and has been developed together with Kammann for their new K 15/40 high-speed presses.

UVOD 173 has a lower viscosity than UVOD 171 and a very high reactivity. The radial deviation value of 0.4° is as all the Marabu whites well within the specifications of DVD production.

UVOD 179 Opaque White (CD yes, DVD limited)

Especially developed for CD and CD-R/RW-formats.

DVD and DVD-R/RW printing is possible as well, though it should be accompanied by a climatic chamber test as the radial deviation values amount to 0.7°.

UVOD 270 High Gloss White (for Blu-ray discs)

Ideally adjusted to the new high definition format Blu-ray.

Unrivalled adhesion onto the new disc surface as well as superior radial deviation values of 0.1° guarantee high production security and first class results.

A separate Info is available for this product.

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Comparison of all UVOD White Shades and their most important features

	UVOD 170	UVOD 171	UVOD 172	UVOD 173	UVOD 179	UVOD 270 BD
Gloss degree	glossy	high gloss	satin gloss	high gloss	glossy	high gloss
Viscosity	medium	medium	high	low	medium	medium
DVD Radial Deviation	0.15°	0.4°	0.25°	0.4°	0.7°	0.1°
Blu-ray Adhesion	+	+	++	+	+	+++
DVD Adhesion	+++	++	+++	+++	++	++
CD Adhesion	++	+++	+++	+++	+++	++
Printing speed units/min	135	135	135	135	135	135
Reactivity	+++	+++	+++	+++	+++	+++
Offset Over-printability	+++	++	+++	+++	++	+++
Conclusion	Perfect offset base for DVD	All-rounder, Focus on CD/CD-R	Very good all-rounder, satin gloss	Especially for high speeds up to 135 units/min	Very price-oriented all-rounder, focus on CD/CD-R	Especially for Blu-ray discs

+++ = very good ++ = good

UVOD 4 Colour Process Sets

Two 4 Colour Process Sets for different customer demands.

The 4x5 and 4x8 sets have especially been designed for production speeds of up to 100 units/min. The outstanding precision guarantees clean printing at high line counts.

4-Clr Set 4x5 (low colour density)

UVOD 425 Process-Yellow
UVOD 435 Process-Red
UVOD 455 Process-Blue
UVOD 485 Process-Black

Especially for skin tones and pastel colours with strong leaning toward the offset scale. Due to its high transparency no special printing sequence is necessary.

4-Clr Set 4x8 (high colour density)

UVOD 428 Process-Yellow
UVOD 438 Process-Red
UVOD 458 Process-Blue
UVOD 488 Process-Black

Especially for graphic applications with emphasis on strong colours. As with the 4x5, it is not necessary to keep to a special printing sequence.

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Colour density of the UVOD 4 Clr Sets

UVOD 425	0,90	UVOD 428	1,25
UVOD 435	1,05	UVOD 438	1,45
UVOD 455	1,20	UVOD 458	1,60
UVOD 485	1,50	UVOD 488	1,88

Printed with a 150-31 mesh.

The values were taken with a Gretag Macbeth Densitometer D19C47B/P and may vary depending on mesh count and printing parameters.

Additional shades

UVOD 180 Opaque Black

A deep black, a high gloss, as well as a high opacity are the main characteristics of UVOD 180.

Excellent handling thanks to the thixotropic formulation which considerably reduces machine stops and rejects. Reactivity has been increased and allows printing speeds of up to 100 units/min.

UVOD 912 Printing Varnish

This Printing Varnish brings out a deeper depth in offset printing.

The outstanding flow and the high transparency provide a high gloss surface and fundamental depth.

UVOD-ML Matt Varnish

Matt overprint varnish for the ennobling of Optical Disc storage media.

Characterised by an extremely high matt degree, transparency, and optimum flow.

A separate Info is available for this product.

For further information please visit

www.marabu-inks.com

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