



ADDITIVES FOR UV, LED, EB PRINTING

During the printing process, various factors such as temperature, substrate type, humidity, or the presence of water, among others, can influence ink behaviour. Additionally, these additives allow for an effective response to demands and urgencies that may arise during printing jobs. To adjust or improve their properties and ensure optimal results, a range of additives is specifically designed to adapt to these conditions.

Recommendations

- Shake well before use.
- **Storage conditions:** Keep away from heat sources, sparks, open flames, and electrostatic charges. Do not store below 0°C. To ensure maximum stability, store in sealed containers between 15-20°C, away from direct heat and UV light exposure, preferably in a dark space.
- **Stock rotation:** Use the oldest product first. Following these conditions, quality is guaranteed until the best-before date (BBD) indicated on the batch label. Products may remain usable beyond this period, subject to internal testing. Use after the expiration date is not recommended.
- The use of gloves or barrier creams is strongly recommended when handling printing chemicals.
- Avoid prolonged contact with unbaked positive PS plates and thermal CtP plates.
- **Not suitable for food applications** unless a risk assessment demonstrates its safety (e.g., if the process eliminates the possibility of transfer in reels or stacks AND if the final printed product design ensures a reliable functional migration barrier).

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Additives

Anti Tack Paste

- Reduces the tack of UV offset and letterpress inks while maintaining viscosity. Improves printability on uncoated papers.
- Recommended dosage: max. 15%

Silicone

- Silicone acrylate that enhances the release properties of UV offset and flexo inks, as well as varnishes.
- Recommended dosage: max. 2%

Anti – Scratch Paste

- Improves scratch and rub resistance in UV offset and letterpress inks. The modified ink remains adhesive and suitable for hot stamping.
- Recommended dosage: < 2%

UV Adhesion Paste

- Enhances adhesion and scratch resistance of UV offset and letterpress inks. Its addition significantly reduces overprintability.
- Recommended dosage: 5-10%

Anti-Foam

- Reduces foam and microfoam in UV flexo inks and varnishes caused by pumping or high-speed printing. Its addition significantly reduces overprintability.
- Recommended dosage: 0.5-3.0%

Rub Resistance Paste

- Improves scratch and rub resistance in UV offset and flexo inks.
- Recommended dosage: 1-5%

Photo-Initiator (Low Migration)

- Enhances curing of low-migration UV and LED inks. Caution when adding to light colours or whites, as it may alter the shade.
- Recommended dosage: max. 5%

Curing Promoter

- Enhances curing of UV and LED inks. Caution when adding to light colours or whites, as it may alter the shade.
- Recommended dosage: max. 5%

Thinner

- Reduces viscosity and tack of UV offset and flexo inks, as well as varnishes.
- Recommended dosage: max. 10% (if adding more, additional photo-initiator is needed).

Photo Initiator

- Enhances curing of UV offset, letterpress and flexo inks without using ITX.
- Recommended dosage: max. 5%

The purpose of our technical documents is to inform and advise our customers. The information provided here is correct to the best knowledge and understanding of Martínez Ayala, S.A. No responsibility is accepted for errors, facts, or opinions. Customers must ensure the suitability of this product for their application. No liability will be accepted for any losses arising from reliance on the product described in this document.

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