

岭南工艺

LINGNAN
CRAFTS



广绣摆件
Guangzhou Embroidery
Ornament

色·精致工艺
CHARACTERISTICS · EXQUISITE

2025/2026 爱卡效果颜料和油墨新品 - 印刷应用

New Effect Pigment and Ink Developments for Graphic Arts

ECKART 2025/2026

AI
created image

说明

Introduction



本介绍册仅包含我们最新研发的产品，如需更多爱卡产品信息，欢迎联系我们索取。

This brochure highlights newest developments. For all product information, please ask for our comprehensive brochure.

Email: info.eckart.asia@altana.com

Email: info.eckart.asia@altana.com

颜料概览 - 印刷效果

Pigment Overview - Printed Results

不同类型颜料的图片说明 Picture introduction of different pigments				
	玉米片型 Cornflake	银元型 Silverdollar	铂元型 Platindollar	美特亮 METALURE®
颜料电镜图 Pigment SEM photo	10 μm	10 μm	10 μm	10 μm
纸张印刷 Surface printed on paper				
薄膜里印 Reverse printed on film				

ALUDUR

高金属感条状铝颜料 Highly Brilliant Aluminium Pigment Pellets

ALUDUR 是爱卡的条状铝颜料系列。该系列被归类为非危险品，因此在操作、物流运输和仓储许可方面具有显著的安全性和合规优势。

此外，ALUDUR 具有高颜料含量，赋予配方极大的自由度。通常可应用于各种溶剂型涂料和油墨体系中，只要遵循推荐的分散操作方式，就可作为浆状颜料的理想替代方案。

该系列已有多款玉米片型和银元型产品上市。ALUDUR LA 8960 NL、ALUDUR LA 8980 NL 和 ALUDUR LA 0905 NL 是三款全新的银元型产品，具有优异的光泽和金属感，同时兼顾良好的遮盖力和出色的调色性能。

在各种底材上，ALUDUR LA 8960 NL、ALUDUR LA 8980 NL 和 ALUDUR LA 0905 NL 展现出极佳的不透明度和均匀的颜料铺展表现。

- 高光泽高金属感
 - 良好遮盖力
 - 非浮型
 - 良好附着力
 - 高配方自由度
 - 优化的低气味配方
- 易于添加
 - 易于分散
 - 无尘
 - 非危险品
 - 合理的化学耐性
 - 长有效期
 - 不含 DPA 或 APEO

ALUDUR is one of ECKART’s pellet series. They are classified as non-dangerous goods, there are positive safety and regulatory aspects with respect to handling, logistics and warehouse licenses.

Furthermore, their high pigment content gives a high degree of formulation freedom. In general, they can be used in every solvent-borne system for coatings and inks and be a good alternative for pastes, if handling recommendations for an optimal dispersion are followed.

There are different cornflakes and silver dollars already available. ALUDUR LA 8960 NL, ALUDUR LA 8980 NL and ALUDUR LA 0905 NL are three new silver dollar grades with superior appearances with respect to gloss and brilliance, balancing good hiding power. The new products convince with very good tinting properties, best opacity and smooth pigment lay down on all kinds of substrates.

- High gloss and brilliance
 - Good hiding power
 - Non-leafing
 - Good adhesion
 - High formulation freedom
 - Improved formulation for less odour
- Easy dosing
 - Easy dispersion
 - Dust free
 - Non-dangerous goods
 - Fair chemical resistance
 - Long shelf-life
 - DPA and APEO free

ALUDUR	颜料类型 / Pigment Type	粒径 / Particle Size	颜料含量 / Pigment Content	遮盖力 / Hiding Power	附着力 / Adhesion	气味 / Odour	银色效果 / Silver Shade
型号/Type		D50 [µm] 近似值 approx.	%				
LA 8960 NL	银元型 / Silver Dollar	16	80	***	良好 / Good	低 / Low	高亮金属感 / Very bright metallic
LA 8980 NL	银元型 / Silver Dollar	13	80	***	良好 / Good	低 / Low	高亮金属感 / Very bright metallic
LA 0905 NL	银元型 / Silver Dollar	9	80	*****	良好 / Good	很低 / Very low	细腻金属感 / Fine metallic
LA 90 NL	银元型 / Silver Dollar	12	85	****	一般 / Fair	低 / Low	明亮金属感 / Bright metallic
LA 15 NL	玉米片型 / Cornflake	11	85	*****	一般 / Fair	低 / Low	一般金属感 / Metallic

SILBERCOTE DF

包覆型水性条状铝颜料 Encapsulated Waterborne Aluminum Pigment Pellets

SILBERCOTE® DF 是一种采用 SiO₂ 包覆的非浮型铝颜料，以条状、无尘形式供应，具备优异的操作性和配方灵活性。每个颜料颗粒均基于高度相容的树脂体系，专为水性涂料和油墨体系优化设计。

作为传统铝粉浆的现代替代方案，其在室内与室外应用中均表现出优异的颜色稳定性和出色的耐发气性能。条状形式可实现清洁加工、精准计量，并简化生产流程。

凭借在水性体系中的高相容性，SILBERCOTE® DF 适用于汽车、工业（3C）及印刷等高要求应用领域，在提供可靠性能的同时提升生产效率。

SILBERCOTE® DF 的主要优点包括：

- 可直接分散于水中，无需预润湿或溶剂预混
- 优异的润湿性与流动性，适用于多种树脂体系
- 简化工艺流程，提升生产效率
- 可在任意阶段简便添加以灵活调整色相
- 同时适用于水性和溶剂型体系，兼容性广
- 低 VOC、无矿物油，支持可持续配方设计
- 非危险品，便于全球运输

SILBERCOTE® DF is a SiO₂-encapsulated, non-leafing aluminum pigment in a pelletized, dust-free format, offering easy handling and high formulation flexibility. Each pellet is based on a highly compatible resin system optimized for waterborne coatings and inks.

As a modern alternative to aluminum pastes, it delivers excellent interior and exterior colour stability and outstanding gassing resistance. The pellet format ensures clean processing, precise dosing, and simplified production.

With high compatibility in waterborne systems, SILBERCOTE® DF supports demanding applications in automotive, industrial (3C), and graphic-arts segments, combining reliable performance with improved manufacturing efficiency.

- The key advantages of SILBERCOTE® DF are:
- Directly dispersible in water, no pre-wetting or solvent pre-mix required
 - Superior wetting and flowability across multiple binder systems
 - Enables faster, simplified production with fewer process steps
 - Flexible post-adjustment of colour by direct pellet addition
 - Broad compatibility with waterborne and solvent borne systems
 - Low-VOC and mineral-oil-free, supporting sustainable formulations
 - Non-dangerous goods for simplified global transportation

SILBERCOTE DF	颜料类型 / Pigment Type	粒径 / Particle Size	颜料含量 / Pigment Content	效果 / Effect	有效期 / Shelf Life
型号/Type		D50 [µm] 近似值 approx.	%		
New 9305	银元型 / Silver Dollar	30	80	强闪烁 / Strong sparkling	12 个月 / 12 months
New 9185	银元型 / Silver Dollar	18	85	强金属效果 / Strong Metallic Effect	12 个月 / 12 months
New 9135	银元型 / Silver Dollar	13	85	细腻金属效果 / Fine Metallic Effect	12 个月 / 12 months



铝浆颜料 Aluminium Pastes

ROTOVARIO 系列为柔版、凹版和丝网印刷提供高性能铝银浆，涵盖溶剂型与水性体系，在现代印刷应用中实现稳定的印刷性能和金属效果。

- ROTOVARIO 800 955 NPAC (溶剂型)
- 分散于 NPAC (正丙酸丙酯) 中的铝银浆
 - 细银元结构, 呈现干净、明亮的金属外观
 - 适用于柔版和凹版印刷工艺
 - 极低矿物油含量 (<0.1%)
 - 在不同印刷条件下保持稳定性能

- ROTOVARIO Aqua 620 1205 Z Silver (水性)
- 水性铝银浆
 - 细银元结构, 实现平滑、清洁的金属效果
 - 专为水性柔版及凹版印刷设计
 - 支持低 VOC 及可持续配方体系
 - 在水性体系中具有良好的稳定性和印刷适性

- ROTOVARIO Aqua 620 5044 Z Silver (水性)
- 水性铝银浆
 - 粗粒径银元型铝颜料, 可呈现闪烁且明亮的金属效果
 - 专为水性丝网印刷体系设计
 - 支持低 VOC 及可持续配方体系
 - 在水性体系中具有良好的相容性

ROTOVARIO offers high-performance aluminium pigment pastes for flexographic, gravure and screen printing, covering both solvent-borne and waterborne systems, delivering stable print performance and metallic effects for modern graphic arts applications.

- ROTOVARIO 800 955 NPAC (Solvent-borne)
- Dispersed in NPAC (n-Propyl Acetate)
 - Fine silver-dollar pigment for clean, bright metallic appearance
 - Suitable for flexo and gravure printing processes
 - Very low mineral oil content (<0.1%)
 - Stable performance across different printing conditions

- ROTOVARIO Aqua 620 1205 Z Silver (Waterborne)
- Waterborne aluminium pigment paste
 - Fine silver dollar pigment for smooth, clean metallic effects
 - Designed for waterborne flexo & gravure printing
 - Supports low VOC and sustainability-driven formulations
 - Good stability and printability in waterborne ink systems

- ROTOVARIO Aqua 620 5044 Z Silver (Waterborne)
- Waterborne aluminium pigment paste
 - Coarse silver dollar pigment for sparkling and bright metallic effects
 - Designed for waterborne screen printing
 - Supports low VOC and sustainability-driven formulations
 - Good compatibility in waterborne systems

ROTOVARIO		颜料类型 / Pigment Type	粒径 / Particle Size D50 [µm] 近似值 approx.	颜料含量 / Pigment Content	溶剂 / Solvent	矿物油含量 / Mineral oil content	色相 / Shade
型号/Type				%			
New	800 955 NPAC	银元型 / Silver Dollar	9	67	正丙酸丙酯 / NPAC	< 0.1%	银 / Silver
New	Aqua 620 1205 Z Silver	银元型 / Silver Dollar	12	47	-	-	银 / Silver
New	Aqua 620 5044 Z Silver	银元型 / Silver Dollar	50	40	-	-	银 / Silver



UV/LED 铜金浆和铝浆颜料 Bronze and Aluminium Pastes

ROTOVARIO UV/LED 是 UV 稳定型铜金和铝颜料浆, 适用于配制能量固化型柔印、丝印和胶印油墨。该系列符合当前低 VOC 或无 VOC 印刷的发展趋势, 为 UV/LED 印刷技术打开了更多可能性。同时, 随着可持续发展理念的不断推进, 也带动了从镀铝底材和烫印工艺向金属效果油墨的转变。全新的 ROTOVARIO UV/LED 可配制出具备良好印刷稳定性和出色叠印性能的 UV/LED 油墨, 在多种底材上都能呈现出卓越金属金色和银色效果。

由于采用了优质基础颜料, 该半漂浮型系列产品具有众多优点:

- 良好的光泽和高金属效果
- 良好的遮盖力
- 半漂浮型
- 良好的可叠印性
- 高固含量带来的高配方自由度 (铝浆固含 50%, 铜金浆固含 84%)
- 容易分散
- 不含 VOC
- 非危险品 (铝浆), 非可燃物 (铜金浆)

用于生产 ROTOVARIO UV/LED 0605 Silver 的所有原材料已列入 IECSC、EINECS、NZIoC、ECL 和 TSCA。该产品符合瑞士法规、RoHS 和 CONEG 法规的要求。

用于生产 ROTOVARIO UV/LED 587 301 RG 和 587 303 PG 的所有原材料已列入 IECSC、ENCS、NZIoC、ECL 和 TSCA。两款产品同样符合瑞士法规、RoHS 和 CONEG 法规的要求。

ROTOVARIO UV/LED 587 301 RG 和 0605 Silver 不含当前高度关注物质 (SVHC) 候选清单中任一物质超过 0.1% 的含量。

ROTOVARIO UV/LED pigments are UV stabilised bronze and silver pigment pastes for UV flexo, screen and offset inks. These pigments follow the trends of no or low VOC printing, which opens doors for UV/LED printing. Furthermore, sustainability aspects opens trends to use more inks than metalized paper or foil stamping. The new ROTOVARIO UV/LED pastes offer the opportunities to create UV/LED inks with good press stability and over printability properties with very good gold and silver metallic effects on different substrates.

- Good gloss and brilliance
- Good hiding power
- Semi-leafing
- Good over printability
- High formulation freedom due to high solid content (50% Aluminum, 84% bronze)
- Easy to disperse
- No VOC
- Non-dangerous goods (silver), non-flammable goods (bronze)

All raw materials used for manufacturing ROTOVARIO UV/LED 0605 Silver are listed in IECSC, EINECS, NZIoC, ECL and TSCA. The product is in accordance with Swiss Ordinance, RoHS and CONEG regulations. All raw materials used for manufacturing ROTOVARIO UV/LED 587 301 RG and 587 303 PG are listed in IECSC, ENCS, NZIoC, ECL and TSCA. The products are in accordance with Swiss Ordinance, RoHS and CONEG regulations.

ROTOVARIO UV/LED 587 301 RG and 0605 Silver do not contain >0.1% of any substance listed in the current Candidate List of SVHCs.

ROTOVARIO	颜料类型 / Pigment Type	粒径 / Particle Size D50 [µm] 近似值 approx.	颜料含量 / Pigment Content	溶剂 / Solvent	VOC 含量 / VOC content	金属感 / Brilliance	遮盖力 / Hiding Power	附着力 / Adhesion	着色力 / Tinting	可叠印性 / Over Printability	色相 / Shade
型号/Type			%								
UV/LED 0605 Silver	银元型 / Silver Dollar	6	50	丙烯酸酯单体 Acrylate monomer	< 0.1%	****	***	****	****	****	平滑银白 / Smooth white silver
UV/LED 587 301 RG	玉米片型 / Cornflake	3	84			****	****	***	***	***	青金 / Rich gold
UV/LED 587 303 PG	玉米片型 / Cornflake	3	84			****	****	***	***	***	红金 / Pale gold



镜面效果铝颜料悬浮液

Mirror Effect Aluminium Dispersions

METALURE 是爱卡高闪亮 PVD 颜料，其中的 Prismatic 系列能在直射光下呈现彩虹效果。

METALURE / Prismatic UV/LED 符合当前低 VOC 或零 VOC 印刷的发展趋势，为 UV/LED 印刷技术的推广打开新机遇。此外，适应可持续发展的需要，市场也趋向于使用更多印刷油墨，而不再是镀铝底材或烫金工艺。

METALURE UV/LED 的新产品可用于配制具有良好印刷稳定性和叠印性能的 UV/LED 油墨，在多种底材上展现出明亮、镜面般的金属光泽效果。

METALURE is the name of ECKART´s highly brilliant PVD pigment series, while Prismatic is a special effect pigment which gives a rainbow in direct light.

METALURE / Prismatic UV/LED pigments follow the trends of no or low VOC printing, which opens doors for UV/LED printing. Furthermore, sustainability aspects opens trends to use more inks than metalized paper or foil stamping.

The new METALURE UV/LED pastes offer the opportunities to create UV/LED inks with good press stability and over printability properties with bright and mirror–like effects on different substrates.

METALURE®	效果 / Effect	粒径 / Particle Size D50 [µm] 近似值 Approx.	固含量 / Solid Content %	金属效果 / Brilliance	遮盖力 / Hiding Power	溶剂 / Solvent	有效期 (月) / Shelf Life (month)
型号/Type							
100723 PM	白亮镜面 / Light Mirror	8	10	****	*****	丙二醇甲醚 / Methoxy Propanol	12
101003 AE	白亮镜面 / Light Mirror	13	10	****	****	乙酸乙酯 / Ethyl Acetate	12
101032 PM	白亮镜面 / Light Mirror	11	10	****	****	丙二醇甲醚 / Methoxy Propanol	12
151020 PM	白亮镜面 / Light Mirror	10	15	****	****	丙二醇甲醚 / Methoxy Propanol	12
101005 AE	黑亮镜面 / Dark Mirror	13	10	*****	*****	乙酸乙酯 / Ethyl Acetate	12
150818 PM	黑亮镜面 / Dark Mirror	8	15	****	****	丙二醇甲醚 / Methoxy Propanol	12
150215 PM	蓝相镜面 / Bluish Mirror	1.5	15	****	*****	丙二醇甲醚 / Methoxy Propanol	12
150512 PM	黑亮镜面 / Dark Mirror	5	15	*****	****	丙二醇甲醚 / Methoxy Propanol	12
101008 AE	黑亮镜面 / Dark Mirror	10	10	*****	****	乙酸乙酯 / Ethyl Acetate	12
150306 MA	高黑亮镜面 / Very Dark Mirror	3	15	****	***	丙二醇甲醚醋酸酯 / Methoxy Propyl Acetate	12
New UV/LED 151003A Paste	白亮镜面 / White Mirror	13	15	*****	***	丙烯酸酯单体 / Acrylate Monomer	6
UV/LED 151003B Paste	镜面 / Mirror	10	15	*****	***	丙烯酸酯单体 / Acrylate Monomer	6
UV/LED 151005 Paste	黑亮镜面 / Dark Chrome Mirror	10	15	****	***	丙烯酸酯单体 / Acrylate Monomer	6



彩虹效果铝颜料悬浮液

Rainbow Effect Aluminium Dispersions

METALURE 和 Prismatic UV/LED 采用 PVD (物理气相沉积) 工艺制成，也常被称为 VMP 或 VMF。这类颜料厚度极薄。为适应能量固化体系的稳定性要求，这些产品经过表面处理，并以 UV/LED 反应性介质为载体制成浆状。

- 高光泽和高金属效果
- 良好的遮盖力
- 半漂浮型
- 良好的可叠印性
- 高固含量带来的高配方自由度 (铝含量 15%)
- 容易分散
- 不含矿物油
- 非危险品

METALURE and Prismatic UV/LED pastes are made via PVD routes also known under abbreviations like VMP or VMF. They are very thin and foil like. For the stability in energy-curing systems these products are surface modified and pastes in UV/LED reactive media.

- High gloss and brilliance
- Good hiding power
- Semi-leafing
- Good over printability
- High formulation freedom due to high solid content (15% Aluminum)
- Easy to disperse
- Mineral oil free
- Non-dangerous goods

Prismatic UV/LED 彩虹效果颜料浆是 UV/LED 稳定型颜料，包含多个粒径规格，适用于 UV/LED 柔印、丝印和胶印油墨。Prismatic 彩虹效果是目前在多个市场中的流行效果。

Prismatic UV/LED rainbow pigment pastes are UV/LED stabilised with different particle sizes for UV/LED flexo, screen and offset ink formulations. Prismatic rainbow effects are the trending effects in different markets.

METALURE® Prismatic	效果 / Effect	粒径 / Particle Size D50 [µm] 近似值 Approx.	固含量 / Solid Content %	金属感 / Brilliance	遮盖力 / Hiding Power	附着力 / Adhesion	溶剂 / Solvent	有效期 (月) / Shelf Life (month)
型号/Type								
UV/LED 150502 Paste	极细彩虹效果 / Very Fine Rainbow	5	15	****	*****	***	丙烯酸酯单体 / Acrylate Monomer	12
UV/LED 151004 Paste	细彩虹效果 / Fine Rainbow	10	15	****	****	***		6
UV/LED 152004 Paste	彩虹效果 / Rainbow	20	15	*****	****	***		6
UV/LED 155008 Paste	粗颗粒彩虹效果 / Sparkling Rainbow	50	15	****	**	***		6



UV/LED 高金属效果胶印油墨

Brilliant Metallic Ink

for UV/LED Offset Printing

METALSTAR UV/LED 是爱卡的高金属感 UV/LED 胶印油墨系列。它们即可付印, 具有优秀的金属感和良好的印刷稳定性。

METALSTAR UV/LED 系列理想适用于纸张、纸板和彩盒的胶版印刷。

METALSTAR UV/LED 的优点包括:

- 单组分 UV/LED 胶印油墨
- 不含 Irgacure® 369
- 高色彩度
- 优秀的印刷性能
- 出色的固化性能
- 高速印刷仍能保持高金属感
- 不含矿物油、TPO、TPO-L 或 TXIB

METALSTAR UV/LED is the name of ECKART's brilliant UV/LED off-set series. It is a print ready ink with good press-stability and brilliant effects.

METALSTAR UV/LED series is ideally suited for offset printing on paper, board and folding cartons.

Advantages of METALSTAR UV/LED:

- 1-component UV/LED offset ink
- Irgacure® 369 free
- High chroma
- Excellent printability
- Very good curing
- High brilliance even at high press speeds
- Free of mineral oil, TPO, TPO-L and TXIB

METALSTAR	色相 / Shade	粒径 / Particle Size	颜料含量 / Pigment Content 约值 Approx %	金属效果 / Brilliance	遮盖力 / Hiding Power	附着力 / Adhesion	着色力 / Tinting	可叠印性 / Over Printability	黏度 / Viscosity
型号/Type		D50 [µm] 近似值 Approx.							[Pa·s]
UV/LED 21 7001 RG	青金 / Rich Gold	3	40	****	****	***	****	****	15 - 45
UV/LED 21 7003 PG	红金 / Pale Gold	3	40	****	****	***	****	****	15 - 45
New UV/LED 21 7005 Silver	银 / Silver	6	15	****	****	***	***	***	10 - 25



无矿物油传统型胶印油墨

Conventional Mineral Oil Free

Offset Inks

UNIPAK 是爱卡旗下的经典品牌, 是包含浮型颜料的传统胶印油墨系列。德国产品组合调整后, 市场对经济型胶印油墨仍有持续需求。尽管 UNIPAK 铜金油墨的配方不含矿物油, 在部分国家可应用于食品接触类的传统胶印印刷, 但由于未达到欧洲标准所要求的 GMP 生产规范, 因此该系列油墨未被归类为 "FPG" 食品包装级。

与此相比, 银墨仍然含有矿物油。

该系列产品在中国生产, 使用本地原材料, 可实现对中国及亚洲市场的快速供应, 并满足成本效益需求。

UNIPAK 的优点包括:

- 良好的光泽和金属效果
- 良好的遮盖力
- 良好的可叠印性
- 良好的印刷稳定性
- 铜金墨不含矿物油
- 铜金墨为不可燃危险品

UNIPAK is an established ECKART brand for leafing pigments containing offset inks. After re-organizing the product portfolio in Germany, there is still a need for economic offset inks. Even though, the UNIPAK bronze inks are formulated without mineral oil and could be used in conventional offset printing for food contact in some countries, the GMP production, which is required for European standards, is not fulfilled. This is the reason why this ink is not called "FPG".

In comparison, the silver ink is still mineral oil containing.

The series is produced in China with local raw materials for optimal delivery in China and Asia and meeting economical targets.

Advantages of UNIPAK:

- Good gloss and brilliance
- Good hiding power
- Good over printability
- Press-stable
- Bronze inks are mineral oil free
- Non-flammable dangerous goods for bronze inks

UNIPAK	色相 / Shade	粒径 / Particle Size	颜料形状 / Paticle Shape	金属效果 / Brilliance	遮盖力 / Hiding Power	附着力 / Adhesion	可叠印性 / Over Printability	不含钴燥油 / Cobalt Drier Free	不含矿物油 / Mineral Oil Free
型号/Type		D50 [µm] 近似值 Approx.							
9222 Z RG	青金 / Rich Gold	3	玉米片型 / Cornflake	****	****	****	****	●	●
9224 Z PG	红金 / Pale Gold	3		****	****	****	****	●	●
9410 Z Silver	银 / Silver	6		****	****	****	****	●	-



UV/LED 镜面效果胶印油墨

Mirror Effect Ink

for UV/LED Offset Printing

TOPSTAR UV/LED 是爱卡推出的超高光泽镜面效果 UV/LED 胶印油墨。该系列基于 PVD/VMP/VMF 颜料, 能够呈现极致的光泽和镜面效果。

TOPSTAR UV/LED 胶印油墨符合当前低 VOC 或无 VOC 的环保印刷趋势, 为 UV/LED 印刷打开新机遇。同时, 出于可持续发展的考虑, 相较于镀铝底材或烫金, 越来越多品牌选择通过油墨实现金属效果。全新 TOPSTAR UV/LED 油墨可在 UV/LED 胶印中呈现高光镜面效果, 具备良好的印刷稳定性和套印适应性。

该产品在中国生产, 采用本地原材料, 可更好地服务中国及亚洲市场的交付需求。

TOPSTAR UV/LED 的优点包括:

- 非常高的光泽和金属效果
- 良好的遮盖力
- 良好的可叠印性
- 良好的印刷稳定性
- 不含矿物油
- 非危险品

TOPSTAR UV/LED is ECKART´s brand name for ultra-brilliant, mirror-like UV/LED – offset inks. These inks are based on PVD/VMP/VMF pigments for highest gloss and brilliance.

TOPSTAR UV/LED offset inks follow the trends of no or low VOC printing, which opens doors for UV/LED printing. Furthermore, sustainability aspects opens trends to use more inks than metalized paper or foil stamping. The new TOPSTAR UV/LED inks offer the opportunity to print high brilliant mirror effects in UV/LED offset with good press stability and over printability.

This product is produced in China with local raw materials for optimal delivery in China and Asia.

Advantages of TOPSTAR UV/LED:

- Very High gloss and brilliance
- Good hiding power
- Good over printability
- Press-stable
- Mineral oil free
- Non-dangerous goods

TOPSTAR	效果 / Effect	粒径 / Particle Size	金属效果 / Brilliance	遮盖力 / Hiding Power	附着力 / Adhesion	着色力 / Tinting	可叠印性 / Over Printability	不含矿物油 / Mineral Oil Free	黏度 / Viscosity
型号/Type		D50 [µm] 近似值 Approx.							[Pa·s]
UV/LED 0606	白亮镜面 / White Chrome Mirror	10	****	****	****	****	****	•	15 - 25



UV/LED 高端银色柔印油墨

High-end Silver Ink for UV/LED

Flexo Printing

ULTRASTAR UVLED FP-8820Z Silver 是一款高金属光泽的 UV/LED 柔版印刷银墨, 可作为镀铝纸和烫金工艺的替代方案。该油墨采用 VMP 真空镀铝颜料配制而成, 适用于多种纸板、纸张及薄膜类底材。

ULTRASTAR UVLED FP-8820Z Silver is a high-brilliant UV/LED flexo printing ink which is an alternative to metallization and foil stamping. The ink is based on VMP aluminium pigments and is suitable for various cardboard, paper and film substrates.

ULTRASTAR UV/LED	粒径 / Particle Size	颜料含量 / Pigment Content	漂浮特性 / Leafing Property	颜料形状 / Paticle Shape	黏度 / Viscosity	不含BPA / BPA free	不含矿物油 / Mineral Oil Free
型号/Type	D50 [µm] 近似值 Approx.	约 / Approx. %			Din 6mm [s]		
FP-8820 Z Silver	10	3.5	浮型 / Leafing	真空镀铝颜料 / VMP	30	•	•



水性高金属感柔印油墨

Brilliant Metallic Inks for Water-borne Flexo Printing

ROTOSTAR Aqua FP 07 系列是基于铜金和颜料的水性柔版印刷油墨。它们是即用型油墨，具备良好的印刷稳定性，并能呈现出出色的金属光泽效果。

ROTOSTAR Aqua FP 07 油墨适用于柔版印刷和塔式涂布印刷，适合用于未涂布纸张、纸板和薄膜等底材。

ROTOSTAR Aqua FP 07 的优点包括：

- 稳定的单组分水性柔印油墨
- 不含白油和矿物油
- 金属光泽和遮盖力之间的优秀平衡
- 良好的耐摩擦性
- 良好的防沉降性能
- 在涂布和未涂布的纸张、纸板底材上良好的印刷适性

ROTOSTAR Aqua FP 07 series is a water based flexo ink series based on bronze pigments. It is a print ready ink with good press-stability and results in brilliant effects.

ROTOSTAR Aqua FP 07 inks are suitable for flexo and tower coating printing applications on uncoated papers, boards and films.

Advantages of ROTOSTAR Aqua FP 07:

- Stable 1-component waterborne flexo inks
- Free of white spirit and mineral oil
- Excellent balance of metallic brilliance and coverage
- Good rub resistance
- Good anti-settling properties
- Good printability on coated and uncoated paper and board substrates

ROTOSTAR Aqua	粒径 / Particle Size	固含量 / Solid Content	颜料含量 / Pigment Content	颜料形状 / Paticle Shape	pH 值 / pH Value	黏度 / Viscosity	光泽 / Gloss	遮盖力 / Coverage
型号/Type	D50 [µm] 近似值 Approx.	约 / Approx. %	约 / Approx. %			(DIN 4)	1)	1)
FP 07-19001 RG	6	65	40	玉米片型 / Cornflake	7 - 9.5	70 - 120 s	****	****
FP 07-39001 PG	6	65	40			70 - 120 s	****	****
New FP 07-41001 Silver	10	50	15			50 - 100 s	****	****

1) 取决于印刷机配置
Depending on machine configuration



UV/LED 高金属感柔印油墨

Brilliant Metallic Ink for UV/LED Flexo Printing

ROTOSTAR UV/LED FP-69 系列金属效果油墨为柔版印刷提供漂亮的银色和铜金色效果，在细线条印刷中具备更佳的遮盖力。该系列产品适用于多种纸张与纸板底材、高吸收性和薄膜类底材以及收缩膜等多种应用场景。

ROTOSTAR UV/LED FP-69 series offers a beautiful silver and gold-bronze effect for flexo applications with improved opacity for fine lines. It is suitable for various paper and board substrates, as well as very absorbent and film substrates, shrink sleeves, etc.

ROTOSTAR UV/LED	色相 / Shade	漂浮特性 / Leafing Property	粒径 / Particle Size	颜料含量 / Pigment Content	颜料形状 / Paticle Shape	黏度 / Viscosity	不含BPA / BPA free	不含矿物油 / Mineral Oil Free
型号/Type			D50 [µm] 近似值 Approx.	约 / Approx. %		Din 6mm [s]		
FP 69-10601Z RG	青金 / Rich Gold	浮型 / Leafing	6	30	玉米片型 / Cornflake	35	-	•
FP 69-30601Z PG	红金 / Pale Gold		6	30		60	-	•
FP 69-40501Z Silver	银 / Silver		5	13	银元型 / Silver Dollar	60	-	•

PVD 铝颜料使用建议 - UV/LED 柔印和丝印油墨配制

Guideline to Use Dedusted PVD Preparations for UV/LED Flexo and UV/LED Screen Inks

配制高金属感镜面效果 UV/LED 柔印油墨

- METALURE® 含量: 3-4% (纯颜料固含量)
- 典型黏度: 0.3 Pas

配制高金属感镜面效果 UV/LED 丝印油墨

- METALURE® 含量: ~2-3% (纯颜料固含量)
- 典型黏度: 0.6-0.8 Pas

生产设置

对于球磨类颜料, 例如玉米片型、银元型和薄元型颜料, 建议使用蝶形搅拌器 (下方左图) 分散。对于 METALURE® 高金属感颜料, 建议使用齿状搅拌器 (下方右图) 分散。

For highly brilliant mirror effect in UV/LED flexo inks

- METALURE® content: 3-4% (pure pigment (solid))
- Typical viscosity: 0.3 Pa-s

For highly brilliant mirror effects in UV/LED screen inks

- METALURE® content: ~2-3% (pure pigment (solid))
- Typical viscosity: 0.6-0.8 Pas

Production setup

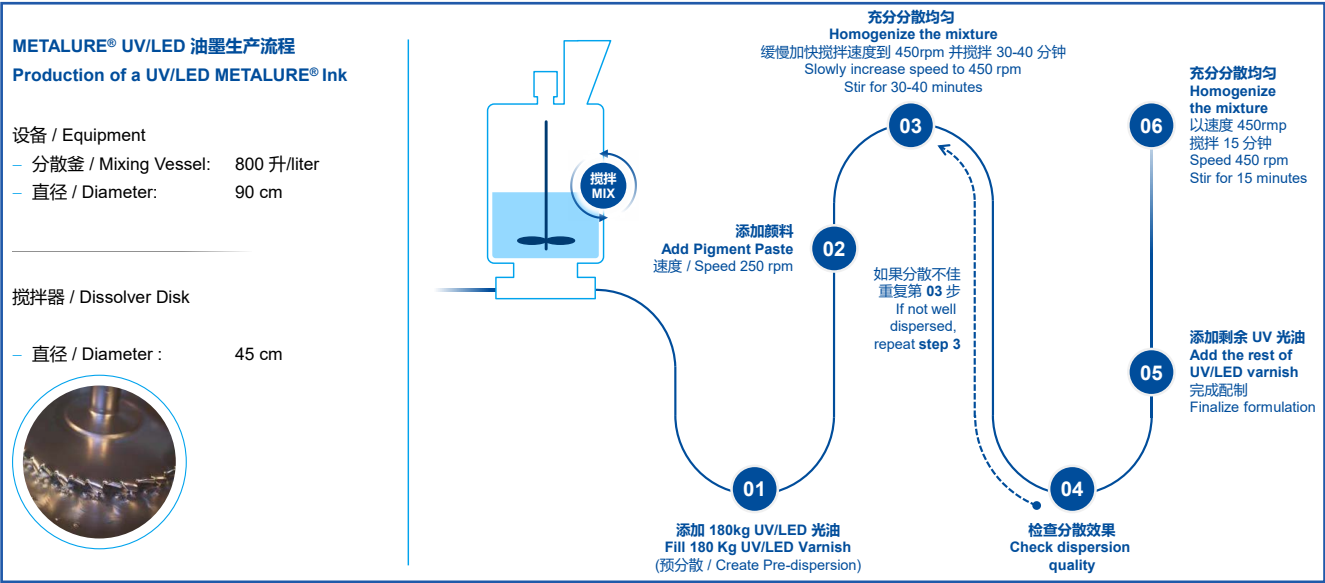
For milled pigments like cornflakes, silverdollars and platindollars, butterfly agitators are recommended (below, left), while for METALURE®, highly brilliant pigments, a tooth blade agitator is recommended (below, right).



蝶形搅拌器
Butterfly Agitator



齿状搅拌器
Tooth Blade Agitator



ECKART GmbH
Guentersthal 4
91235 Hartenstein, Germany
Tel.: +49 9152 77-0
Fax: +49 9152 77-7008
E-Mail: info.eckart@altana.com
www.eckart.net

爱卡(亚洲)有限公司
香港湾仔轩尼诗道302-308号集成中心701-3室
ECKART Asia Ltd.
Room 701-3, 7th Floor C C Wu Building
302-308 Hennessy Road
Wanchai, Hong Kong
电话/Tel.: +852 3102 7200
传真/Fax: +852 2882 5366
E-Mail: info.eckart.asia@altana.com

上海/Shanghai
电话/Tel.: + (86 21) 6456 8880

广州/Guangzhou
电话/Tel.: + (86 20) 8387 8860

苏州/Suzhou
电话/Tel.: + (86 512) 6733 3150

0/May2026. GA PRC

本手册所提供的数据、本公司在应用技术方面的建议以及所涉及的第三方权益,无论是口述、书面或通过试验的,均真实无伪,但并不包含我们的任何保证或担保。我们的建议,并不能免除用户在使用和处理我们的产品时,对其适用性,以及对我们提供的数据特别是安全数据和技术信息,进行验证的义务。任何对我们产品的施工应用、使用和处理,以及用户任何依据我们的技术建议所生产的产品,由于不受我们控制,因此均为用户责任。

谨致友好问候
With compliments

台北/Taipei
电话/Tel.: + (886) 930 016 236

Japan
Tel.: + (81) 90 5319 0661

Korea
Tel.: + (82) 31 724 3500

Singapore
Tel.: + (65) 6513 0159

India - Pune
Tel.: + (91 20) 6719 0709

Vietnam – Ho Chi Minh City
Tel.: + (84 28) 3824 3371



This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided – especially that contained in our safety data and technical sheets – and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.