


Technical Product Information			
Stapa HP- Series			
Article-No.:	Product name:	Article-No.:	Product name:
023798GD0M1	Stapa HP 1005 IL	005362GD0M7	Stapa HP 1805 IL
023924GD0M1	Stapa HP 1205 IL	005367GD0M4	Stapa HP 3405 IL
005326GD0M4	Stapa HP 1405 IL		

REVISION: 1	EDITION: JUNE 2021	IDENT-No.: 00480.E	PAGE 1 VON 2
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Product description:

The Stapa HP Series represents a portfolio of surface-treated non-leafing Aluminium pigments in paste form.

With latest Silberdollar milling technology in various particle sizes, these products offer extraordinary brilliance from smooth and glossy to sparkling effects.

The surface treatment results in perfect non-leafing properties and significantly improved technical properties, such as chemical resistance, intercoat adhesion, stability in water-based systems and excellent tinting properties. Due to our production processes for these products, we cannot guarantee necessary measures for FCM (Food Contact Materials), such as special raw material selection, control of raw materials and end products regarding composition and impurities or production according to GMP.

A SoC is therefore not available for these products.

When using these products in indirect food contact, the suitability for this application has to be tested before commercial use by the user through suitable analyses.

Scope of applications

Solvent-based coatings and inks*

Water-based coatings and inks*

*Gravure and flexographic printing, screen printing inks

*As with all metallic inks the substrate has an influence on the final result. Very absorbent or uneven substrates often cause poor pigment orientation resulting in inferior brilliance. In some cases, the use of primers to improve the substrate surface is advantageous.

Product properties:

Excellent product stability and long shelf-life

Binder-free

Wide compatibility in solvent-based and water-based systems

Highly improved stability in water-based systems compared to additive-stabilized Aluminium pigments.

Good shear resistance

Excellent adhesion performance, suitable for lamination

Good chemical resistance

Excellent shade consistency in polychromatic systems

Additional product properties:

Stapa HP	Solid content [%]	Solvent content [%]	Solvent	Particle size [µm]
1005 IL	Approx. 50	Approx. 50	Isopropanol	10
1205 IL	Approx. 50	Approx. 50	Isopropanol	12
1405 IL	Approx. 60	Approx. 40	Isopropanol	14
1805 IL	Approx. 60	Approx. 40	Isopropanol	18
3405 IL	Approx. 65	Approx. 35	Isopropanol	34

Compatibility:

For water-based systems we recommend to select binders with sufficient tolerance to the dampening solvent (Isopropyl Alcohol). In case of signs of incompatibility (e.g. poor coverage or viscosity increase) please contact Eckart technical service for product alternatives. Versions with other carriers are possible on specific request.

Handling:

Stapa HP pigment pastes are optimised for high metallic effects. The concentrates can be stirred directly into the binder system by using low shear aggregates or dissolvers with moderate shear rates.

For water-based systems with limited alcohol-tolerance a pre-dispersion with demineralized water is recommendable.

Metallic pigments for water-based inks are ideally dispersed under vacuum. This avoids air and foaming during production process.

Metallic inks tend to settle because of the high specific gravity of the pigment. This is normal and not due to a lack of quality. The inks can be stirred up easily and must be homogenised carefully prior to viscosity control, adjustment and application.


Please refer to the Safety Data sheet of Stapa HP products for further handling guidelines.

Storage and transportation:

All Stapa HP products should be stored at temperatures below 25°C. High temperatures as well as very low temperatures should be avoided as these conditions could damage the product.

Shelf life:

24 months

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REVISION: 1	EDITION: JUNE 2021	IDENT-No.: 00480.E	PAGE 2 VON 2
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