

UltraRotaScreen UVSF: The Ideal Partner for Flexo Printing

Silicone-free UV Rotary Screen Printing with Outstanding Ink Acceptance

Screen
Sep 2007
revised
Mar 2010



The time when flexo printing was considered to be of low quality is a thing of the past. Today, the combination of UV rotary screen / UV flexo represents first class reproduction provided there is optimum compatibility between both ink systems.

Developed for combined UV rotary screen / UV flexo presses, UltraRotaScreen UVSF perfectly fulfils these conditions. Through its silicone-free formulation, UVSF ensures outstanding acceptance of the overprinted flexo ink.

Applications

Up-market 'no-label-look' use, with high mechanical and chemical resistances according to individual customer requirements. The substrate range includes common label materials such as coated or Corona-pre-treated PE/PP foils, coated PET foils, and PVC and paper self adhesive foils.

UltraRotaScreen UVSF: Your Benefits

- **Silicone-free formulation, guaranteeing compatibility with UV flexo ink systems, eliminating silicone contamination in the machine**
→ High production security through optimum acceptance of the overprinted flexo ink, saving of time by avoiding cleaning stops
- **High gloss, optimum ink flow**
→ Excellent appearance, very good detail reproduction
- **Flexible ink film**
→ Very well suited for post processes such as foil stamping, thermotransfer printing, and die-cutting
- **High mechanical, chemical, and filling good resistance, outstanding adhesion onto common substrates**
→ Universal use onto numerous materials
- **Highly reactive, very fast curing**
→ High printing speeds for increased output and efficiency
- **Optimum rheologic adjustment, press-ready**
→ Perfect flow and printing characteristics, simple handling, high production security avoiding additives

Processing of UVSF

In order to obtain the best possible printing results, the following points should be observed when using a silicone-free ink system:

- UVSF is not compatible with inks containing silicone / may not be used for colour mixing.
- Inks containing silicone need to be thoroughly removed from screen / squeegee prior to the change-over. After cleaning in an automatic screen washing system, rinse again with fresh cleaning agent. Ensure that pumps are completely free of contamination.

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The UVSF Range

The entire UVSF range is available in 5 kg units:

Art.-No.

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- **13 Basic Shades, System Ultracolor**
- **172 Opaque White**
- **173 Opaque White**
- **179 Opaque White New!**
- **180 Opaque Black**
- **904 Special Binder**
- **910 Printing Varnish**

UVSF 172

First white generation of our silicone-free screen printing ink UVSF with excellent adhesion onto critical materials, optimum white degree, and high opacity. It is suitable for printing speeds up to 50 m/min. The thixotropic adjustment prevents the ink from dripping through the screen.

UVSF 173

Opaque white based on new, modern raw materials with maximum price-performance ratio. UVSF 173 Opaque White exhibits comparable characteristics as UVSF 172, with an even better ink flow at high printing speeds up to 65 m/min.

UVSF 179

With an outstanding price-performance ratio, UVSF is suitable for high printing speeds up to 65 m/min. Beyond excellent flow and a very good reactivity, it offers a market standard white degree.

Silver with Hot Foil Look

Hot foil stamping is a popular but also expensive decoration technique for the finishing of high-grade products. Due to this, minimising cost is just as important as the design of the product. UVSF is particularly notable because it offers the following high-light:

A 2-component high gloss bronze, consisting of the Special Binder 904 and the High Gloss Silver Paste S-UV 296. The effect is deceptively authentic and covers many applications previously thought only possible by hot stamping.



Hot foil effect with S-UV 296

If a UV letterpress / offset print follows ...

UVSF also gives excellent results with both UV letterpress and UV offset printing.

Here 'silicone-free', and the corresponding requirement for critical cleaning, is not necessary. Therefore, inks containing silicone like the UltraRotaScreen UVRS, can also be used.

Comparison chart of the three Opaque Whites see p. 3.

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The UVSF Opaque Whites – Comparison of the most important features

Characteristics	UVSF 172	UVSF 173	UVSF 179 – New!
Gloss level	high gloss	high gloss	high gloss
Opacity	high opacity	high opacity	high opacity
Speed m/min	50 m/min	65 m/min	65 m/min
Reactivity	++	+++	+++
PE Adhesion	+++	++	+
PP Adhesion	+++	++	+
PVC Adhesion	+++	++	+
Letterpress overprintability	+++	+++	+++
Offset overprintability	+++	+++	+++
Flexo overprintability	+++	+++	++
Conclusion	Opaque White with exceptional adhesion onto critical substrates	Opaque White with optimal flow even with highest printing speeds	Very price-oriented for standard appli- cations within the lower price segment

+++ excellent ++ very good + good

For further information please visit www.marabu-inks.com

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