

## Ultraswitch UVSW: Bright UV Future for Membrane Switches

In the Membrane Switch Market the Time is Ripe for UV Inks – Switch Now!

Screen  
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In the Membrane Switch market solvent-based ink systems have dominated so far. Nevertheless, with their unrivalled advantages UV inks also created a corresponding demand in this field. The challenging production of membrane switches, however, limits UV technology and its chemistry.

### New Raw Materials for UV Inks



**Ultraswitch UVSW**, an ink based on innovative UV raw materials, overcomes these limits. It fulfils the highest technical and optical requirements on front panels, membrane switches and other operational controls.

An **extremely elastic ink film** provides simple post-processing. The adhesive-resistant ink film guarantees the bonding with the common spacer materials without dissolving the ink film.

For the decorative function of the operational controls, UVSW scores with brilliant colours as well as **unlimited mesh opening**, ideal for the smallest fonts and outlines.

### Combinations with MSW and SR

UVSW can be combined with the solvent-based ink series for membrane switches Maraswitch MSW and Marastar SR, as long

as the bottom layer is printed with UVSW, followed by an overprint with MSW or SR.

This is most important if opaque keyboard elements come into play. For these blocking layers the use of the corresponding MSW or SR products is recommended. Residual solvents in the multi-layered ink film and the risk of subsequent delamination should be excluded through (circulating) air-drying.

### Benefits for your business

- **UV → Unlimited mesh opening**  
→ Excellent detail reproduction also with higher runs → Quality and process safety  
→ No cleaning stops → Time and cost saving
- **UV → No solvent evaporation**  
→ Constant colour accuracy → Quality and process safety
- **UV → Very short drying time**  
→ Higher production speed → Time and cost saving
- **Extremely elastic ink film**  
→ Simple hot/cold stamping, die-cutting, bonding → Quality and process safety
- **Very good (intermediate) adhesion of the single ink layers**  
→ Very high peel-off values → Quality and process safety
- **Compatible with MSW and SR**

### In the event of any queries, please contact:

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**UVSW range see page 2**

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### UVSW Range

Available in 1 kg units,  
Art.-No. 3743 57 xxx

#### Basic Shades, System Ultracolor

<b>922</b> Light Yellow	<b>952</b> Ultramarine Blue
<b>924</b> Medium Yellow	<b>956</b> Brilliant Blue
<b>926</b> Orange	<b>960</b> Blue Green
<b>932</b> Scarlet Red	<b>962</b> Grass Green
<b>934</b> Carmine Red	<b>970</b> White
<b>936</b> Magenta	<b>980</b> Black
<b>950</b> Violet	

#### High-opaque Shades

<b>170</b> Opaque White
<b>180</b> Opaque Black

#### Transparent Shades

<b>904</b> Special Binder
<b>912</b> Window Varnish
<b>913</b> Window Varnish

### Ultraswitch UVSW 912 and 913 Window Varnishes



#### Ultraswitch UVSW 912

Transparent, high gloss window varnish for printing onto common, structured PET foils, e.g. McDermid Autotype or Folex (degree of gloss 92 / 85°)

The high transparency of UVSW 912 is outstanding. The printed area is free of streaks and blurs and shows very good chemical resistance against for example alcohol and acetone.

#### Ultraswitch UVSW 913

Anti-glare window varnish. Similar to the transparent window varnish UVSW 912 it features first class chemical resistance and streak-free appearance.

#### Benefits for your business:

- **Homogeneous flow:** A surface as smooth as glass, excellent appearance
- **Streak-free prints:** Eliminates rejects caused by blurs in the image
- **Outstanding mechanical and chemical resistanc:** Very good scratch resistance, the print is not affected by solvents and alcohol
- **Very good reactivity:** Quick cure allows optimization of production process



UVSW 912 and 913 are silicone-free varnishes. Screen and squeegee need to be thoroughly rinsed with fresh cleaning agent prior to printing. Contaminations may result in bad flow.

UVSW 912 and UVSW 913 are not compatible with the UVSW Ultracolor Shades. For colour mixing use UVSW 904 Special Binder.