

UvoScreen II



UvoScreen

for label applications



| | Uvoscreen II |
|--|-----------------|
| PS Paper Labels | • • |
| PS Film Labels | • • • |
| PS Thermal Labels | - |
| • • • Highly recommended • Can be used - Not recommended | |



UV screen range

- Uvoscreen II
 - Rotary ink system (Opaque White and Pantone Base Colours) for high quality label applications



UV screen

PS Film

- To get optimal adhesion
 - Follow recommendations from substrate supplier
 - Surface tension needs to be above 38 dyne/cm
 - Use corona treatment if needed
 - If top coated substrates are corona treated water resistance can be compromised
 - Optimal condition for humidity is 40-60%
 - UV screen is printed with high film weight – if ink film is not cured thoroughly this can result in poor adhesion. Check ink cure!



UV screen

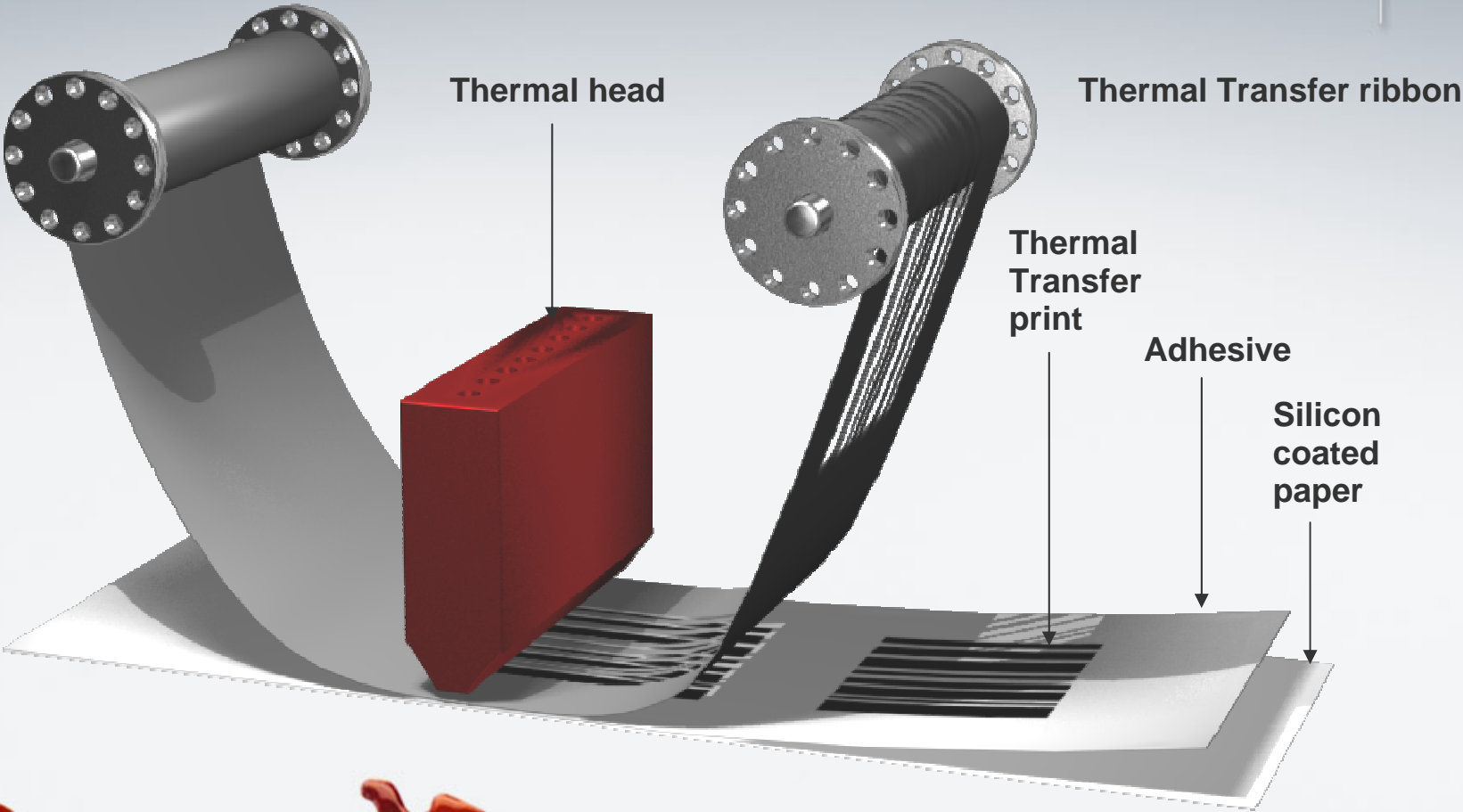
Recommendation – PS Film

| Material | Uvoscreen II |
|----------|--------------|
| PE | • • • |
| PE TC | • • • |
| PP | • • |
| PP TC | • • |
| PVC | • • |
| PET | • • • |
| BOPP | • • |

• • • Highly recommended • Limited use - Not recommended



Thermal Transfer Printing



UV Letterpress

Thermal Transfer Printing

Following factors may influence TTR Printing

- **Type of printer**
 - Print head
 - Settings; heat, speed and pressure of the printer
- **Ribbon**
 - Type (Resin, wax or combination), Series
- **Ink /varnish**
 - Printing ink & varnish (silicon free)
 - Ink lay down (surface smoothness, pinhole free)
- **Substrate**
 - Absorbance
 - Top coating / smoothness



UV screen

Thermal Transfer Printing

- To get optimal TTR result
 - "Overcured" UV Screen inks shows bad over printability with some ribbons.
 - Use a UV varnish that is specially designed for TTR
 - Follow recommendations from ribbon supplier
 - Follow the instructions from Thermal Transfer printer supplier
 - Aim for optimal lay-down of print/varnish as even ink/varnish film is much easier to TTR print (more receptive).

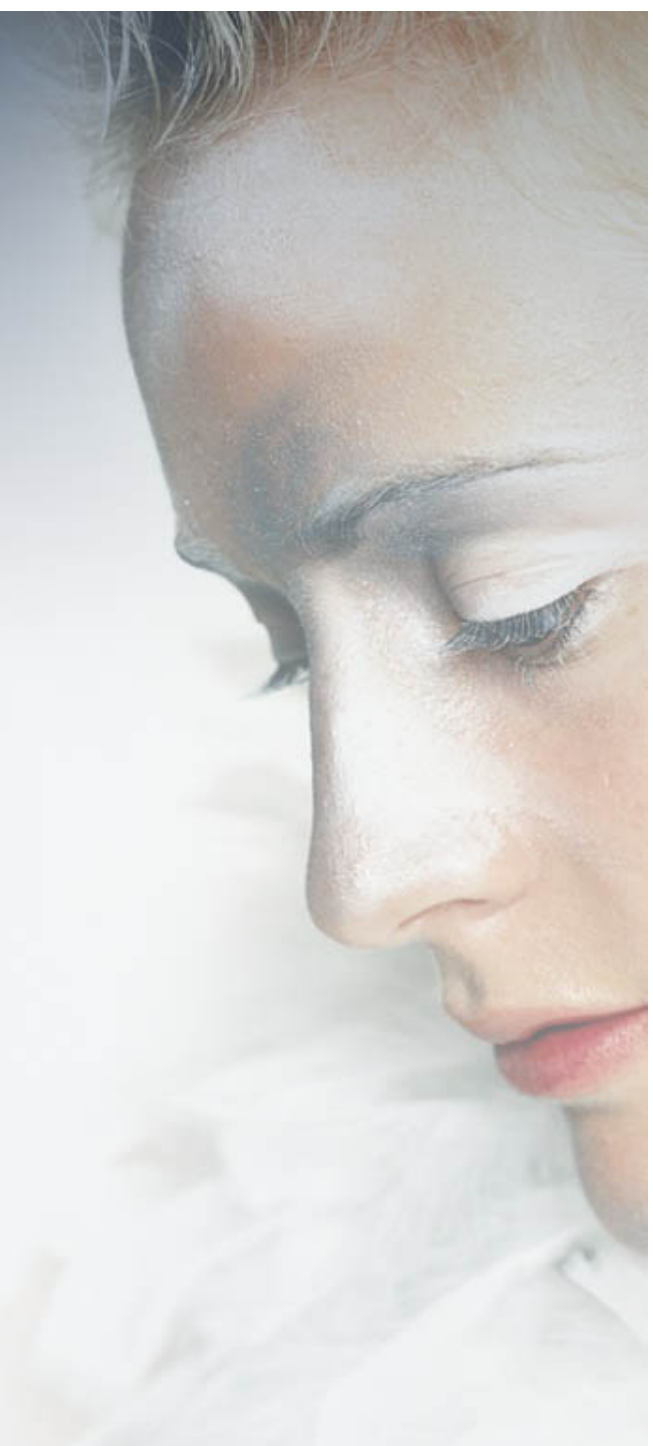


UV screen

Recommendation – TTR

| Ribbon | Uvoscreen II |
|-----------|--------------|
| Wax | • |
| Wax/Resin | • |
| Resin | • |

• • • Highly recommended • Limited use - Not recommended



UV Screen

Thermal Transfer Ribbon recommendation



| Manufacturer | Wax | Wax/Resin combination | Resin |
|--------------|----------------|---------------------------|----------------|
| ARMOR | AWR210, AWX500 | APR5 | AXR7+, AXR8 |
| RICOH | | | B110CR |
| SONY | | TR4065, TR4080, TR5050 | |
| KURZ | | K200 | |
| DNP | | M260, | R316, R300 |
| CALOR | | | T516Sw, T550Sw |
| DYNIC | | M345 | HL60 |

The TT ribbons that we recommend have shown good compatibility with our inks and varnishes. However this is only a guideline based on our experience and is not a guarantee.

