

## UV TAF-(A) Ink series

### (Scratch free UV curable protective clear for Screen printing)

The printing ink layer of UV TAF-(A) ink is extremely scratch-resistant and serves as protective layer during post processing and transportation. It is a UV curable screen printing ink that leads to cost reductions depending on the method of use.

<b>Applications</b>	Design printing and protection for membrane switches and automotive meter surface
<b>Special Features</b>	<ul style="list-style-type: none"> <li>• Excellent post-processability due to superb flexibility of the ink layer</li> <li>• Ink layer is extremely scratch-resistant due to the balance of hardness and flexibility</li> <li>• Non glare finish can be achieved by printing on the printing side or non-printing side</li> </ul>
<b>Substrate</b>	Treated PET, PC
<b>Dilution</b>	Dilution is not required (Use RE-830 REDUCE within 10% if dilution is required)
<b>Catalyst/Promoter mixing</b>	Not required
<b>Additives</b>	SM-269 DEFOAMER less than 1% (If bubbling or cissing occurs) UV THIXOTROPIC AGENT less than 2% (to improve viscosity)
<b>Recommended Cleaner</b>	Screen Cleaner L2
<b>Mesh</b>	T 150 to 300 mesh (Coverage is about 30 to 60m <sup>2</sup> /kg) UV TAF-(A) 100T MATT CLEAR : T 300 mesh UV TAF-(A) 100 MATT CLEAR : T 250 mesh UV TAF-(A) 200 MATT CLEAR : T 200 mesh UV TAF-(A) 300 MATT CLEAR : T 150 mesh
<b>Drying/Curing</b>	Accumulated light energy: 500 to 700mJ/cm <sup>2</sup> , Peak power: 600 to 700mW/cm <sup>2</sup> (Eye Graphics UV integral light counter) Two 120W/cm metal halide lamps, lamp height 15cm, belt speed 10m/min
<b>Standard Colors</b>	UV TAF-(A) 100T MATT CLEAR : Full matte finish (tactile type) UV TAF-(A) 100 MATT CLEAR : Full matte finish UV TAF-(A) 200 MATT CLEAR : 70% matte finish UV TAF-(A) 300 MATT CLEAR : 30% matte finish
<b>Caution</b>	<ul style="list-style-type: none"> <li>• Checking adhesion before production: Adhesion may change depending on the substrates, processes, and printing. Be sure to check the adhesiveness before mass production printing.</li> <li>• Ink shelf life: 6 months from production date, unopened.</li> </ul>

**Safety** UN No.: Not classified in the definition  
UN Classification: Not classified in the definition

**Handling**

- Use safety gloves and eyeglasses to protect skin and eyes. If the ink comes in contact with skin, wash with soap and plenty of water (or lukewarm water) and consult with a doctor.
- SDS is available upon request. Please request a copy and read it carefully before handling the products.

## Resistance

Test item	Test Conditions	Test results
Adhesion	JIS K 5600-5-6:ISO2409(cross-cut), 1mm interval, 6×6, cellophane tape and peel	No peel
Pencil Hardness	JIS K 5600-5-4:ISO 15184 (pencil), weight 750g, pencil hardness which does not make scar	HB
Abrasion	JIS K5600-5-9:ISO7784-2(Abrasion ring), :CS17 Abrasion ring, weight 1kg, 20 back and forth, check exposed condition of substrate	No defect
Sand eraser	Use sand eraser, weight 500g, 200 back and forth, check exposed condition of substrate	No defect
Alcohol	Gakushin scrub tester, cotton soaked ethyl alcohol, weight 200g, 50 back and forth., check peel off	No defect
Alkaline	Soak 3 hrs., in 5%-NaOH, check appearance after 24 hrs.	No defect
Acid	Soak 3 hrs., in 5%-HCl, check appearance after 24 hrs.	No defect
Falling-weight test	JIS K5600-5-3 DuPont Impact tester, drop 300g weight from 30cm height	No defect
Oil	Soak 24 hrs., in vegetable oil, check surface condition after taking out and wiping off oil	No defect
Detergent	Soak 24 hrs., in 10% non-ionic household detergent solution(mama-lemon), check appearance after removal	No defect
Hot Water	Soak 24 hrs., in 60°C hot water, check appearance after removal	No defect
Water	Soak 24 hrs., in tap water, check appearance after removal	No defect
Sweat	Soak 24 hrs., in artificial sweat(D method), check appearance after removal	No defect
Heat	JISK5600-6-3:ISO 3248: 80°C、24 hrs., check appearance	No defect
Constant Temp. & Humidity	JIS K 5600-7-2 ( Continuous condensation ) : 60 °C , 98%RH, check appearance after 24 hrs.	No defect
Cold	-40°C, check surface condition after 24 hrs.	No defect
Accelerated Weathering	Weather meter (sunshine), 500 hrs.,(appearance, degree of yellowing)	No defect

\*Test Conditions 【UV TAF-(A) 100 MATT CLEAR】 【T 250 mesh】 【0.5t polycarbonate】  
【Two 120W/cm Metal halide lamps, height 15cm, belt speed 10m/min】

\*Above resistance test results are measured results in our laboratory and they are not guaranteed values.

\*Information contained in this catalog may change without prior notice.

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