

## **XG VARNISH 3/1000** (Overcoat Clear for PVC stickers)

XG VARNISH 3/1000 is an Acrylic based evaporation dry type, one pack curing clear. It was developed as an easy-to-use overcoat clear for PVC stickers.

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<b>Application</b>	<ul style="list-style-type: none"><li>• Overcoat clear for PVC stickers</li><li>• Overcoat clear for VK, and VG inks.</li></ul>
<b>Special Features</b>	<ul style="list-style-type: none"><li>• Excellent adhesion to PVC stickers</li><li>• Good balance of hardness and softness, excellent in various resistances</li><li>• Glossy and excellent in gasoline resistance</li></ul>
<b>Substrate</b>	PVC sheet
<b>Dilution</b>	M-002 SOLVENT (standard) Dilution: 15 to 30%
<b>Recommend Cleaner</b>	Screen Cleaner L2
<b>Mesh</b>	T 180 to 225 mesh (Coverage is 35 to 45m <sup>2</sup> /kg at 200 mesh)
<b>Drying</b>	60°C 30 to 60 min *Ensure sufficient drying After drying for 1 hr. at 60°C, leave on rack for 1 hr. then pile up. Application tape can also be applied immediately after drying for 1 hr. at 60°C.
<b>Caution</b>	<ul style="list-style-type: none"><li>• Checking before production: Adhesion and resistance properties may change due to differences in substrates, processes, printing and drying conditions. Be sure to check the adhesiveness and resistance properties before mass production printing.</li><li>• Ink shelf life: 24 months from production date, unopened.</li></ul>
<b>Safety</b>	UN No.: 1210 UN Classification: Class 3 Flammable Liquids (Flash point is over 23 Degree C)
<b>Handling</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• Containers should be closed tightly after use and stored in a cool and dark place.</li><li>• SDS is available upon request. Please request a copy and read it carefully before handling the products.</li></ul>

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## Resistance

Test item	Test Conditions	Test results
Heat	JISK5600-6-3:ISO 3248: 80°C、168 hrs. check appearance and peel off	No defect
Hot Water	JIS K5600-6-2, Soak 168 hrs. in 40°C hot water, check appearance and peel off	No defect
Humidity and cool-heat cycling test	JIS K5600-7-4 3 cycles:80°C(4.5 hrs.)~20°C(0.5 hrs.)~-30°C(4 hrs.)~20 °C (0.5 hrs.) ~ 50 °C 95 % RH(14 hrs.) ~ 20 °C (0.5 hrs.) check appearance and peel off	No defect
Boiling	Soak 5 min in boiling water, check appearance and peel off from the substrate	No defect
Oil	Soak 1 hr. in kerosene, check appearance	No defect
Window washer	Soak 1 hr. in window-washer, check appearance and peel off from the substrate	No defect
Wax remover	Soak 1 hr. in wax-remover, check appearance and peel off from the substrate	No defect
Gasoline	Soak 1 hr. in gasoline, check appearance and peel off from the substrate	No defect
Scrub	Gakushin scrub tester, cotton, 1kg weight, 50 back and forth, check color fade	No defect
Abrasion	JIS K5600-5-9: ISO7784-2 (Abrasion ring method), 1kg weight, CS17 abrasion ring, 100 times, check exposure of substrate	No defect
Shrink by heat	100mm×100mm prints, after 48 hrs. at 70°C, check dimension change: ≤0.1%	No defect
Accelerated weathering (Carbon-arc)	JIS K5400 9.8.1 Weather meter with carbon arc,:BP Temp.63+/-3°C: Raining rate 18 min/120 min, check color fade and peel off	(800-1000 hrs.) No defect
Natural weathering	JIS K5600-7-6、Exposure in Tokyo, check color fade and peel off	(1 year) No defect

\*Test conditions 【XG VANISH 3/1000】 【M-002 SOLVENT 15%】 【T 180】 【60°C 60 min】  
 【Substrate: PVC sticker: Hi-S Cal 5010 White】  
 【Tested by overcoating on VK-911 BLACK, 391 BLUE, and Silver printed materials】

\*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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