

# 20000 Series Air Dry Epoxy Screen Ink

**Ideal for electronic and industrial applications**  
**Excellent adhesion to metals and glass**  
**Superior abrasion and chemical resistance**  
**Outstanding screenability**  
**Free of chromate, heavy metals and lead.**

**STOCK, END-USE:** Epoxy, melamine, treated polyethylene, treated polypropylene, metals, glass, PC boards. **NOTE: 20000 Series is recommended for indoor applications only.**

**DESCRIPTION:** 20000 Series inks are formulated with high-quality epoxy resins for excellent adhesion to a wide range of hard-to-print substrates. It provides outstanding solvent, chemical and abrasion resistance. 20000 Series is a two-part ink system and must be initiated with 20900 catalyst prior to use.

**Note: Pre-test on actual substrate before any full production run**

**FINISH:** High-gloss finish. For matte or stain finish, add FP084 Flattening Powder. Mix 1-6 ounces of FP084 with T-976B Thinner. Stir to a past consistency and then add mixture to one gallon of 20000 Series ink.

**COLORS:** Available in opaque and transparent colors.

**COVERAGE:** Approximately 1,000 square feet (101 m<sup>2</sup>) per gallon through mesh count 250 monofilament polyester.

**SCREEN FABRIC:** Mesh counts 200-305 monofilament polyester or stainless steel mesh.

**STENCIL:** Dual-cure direct method photo emulsion or SBQ presensitized photo emulsion or equiva. lent. Also, any solvent-resistant film or photo emulsion.

**INK PREPARATION:** Before using 20000 Series ink, add 1 part 20900 Catalyst to 5 parts ink. Pot life of catalyzed 20000 Series ink is approximately 6-8 hours.

**DRYING:** Air-dry in 30-60 minutes under room temperature. Force-dry for 3-5 minutes at 150° to 180° F (65° to 82° C). Baking Series 20000 prints for 10 minutes at 300° to 325° F (148° to 162° C) will produce the hardest, most durable prints.

**MODIFICATION:** To extend color and/or reduce pigmentation, add 20790 Clear Base. For printing fine details, add 20800 Halftone Base. To improve ink flow, add FA 008 Flow Agent (1 /2-1 % by weight). For best printing results, reduce ink with 5-15% (by weight) T-976B or T-974/T- 974B. To prevent drying in screen under hot, humid conditions, add T-999 sparingly.

**CLEAN UP:**  
T-902/T-925 Washup  
CRS500 Biodegradable Washup

**METALLIC BASE:** For metallic print effects, use 20780 Clear Metallic Base. Working pot life of ink with metallics is severely restricted. Mix only as needed. Do not use double A grade extra fine metallic powders.

**PACKAGING:** 1-quart (0.945 Liter), 1-gallon (3.78 Liter), containers.

**SAFETY & HANDLING:** Refer to Material Safety Data Sheet (MSDS) for complete information.

**COLOR RANGE:**  
All colors are formulated using nonleaded pigments.

**OPAQUE COLORS:**  
20150 Super White  
20205 Primrose Yellow  
20215 Lemon Yellow  
20225 Medium Yellow  
20275 Ultra Orange  
20305 Holiday Green  
20315 Emerald Green  
20325 Deep Green  
20415 Brilliant Blue  
20425 Orbit Blue  
20435 Regal Blue  
20445 Deep Peacock Blue  
20515 Fire Red  
20525 American Red  
20535 Satellite Red  
20545 Deep Red  
20555 Permanent Magenta  
20565 Permanent Cerise  
20660 Brown  
20770 Black

**TRANSPARENT COLORS:**  
20827 Process Yellow  
20834 Monastral Green  
20845 Permanent Blue-R  
20846 Process Blue  
20849 Permanent Violet  
20853 Permanent Red-Y  
20858 Permanent Red-B.  
20876 Permanent Rose Red  
20886 Process Red

**CATALYST:**  
20000 Series should be initiated with 20900 catalyst before use. To initiate 20000 Series, add 20% catalyst (by weight).

**MODIFIERS:**  
20780 Clear Metallic Base  
20790 Clear Extender Base  
20800 Halftone Base  
FA 008 Flow Agent  
FP 084 Flattening Powder

**SOLVENTS:**  
T-902/T-925 Washup  
T-974/T-974B Slow Thinner  
T-976B Thinner  
T-999 Retarder  
CRS500 Biodegradable Washup

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