



ER Series Epoxy Resin Screen Ink

SUBSTRATES: PHENOLICS, POLYESTERS, MELAMINE, SILICONE, FERROUS AND NON-FERROUS METALS, CERAMICS, GLASS;
USES: GLASS CONTAINERS, ASH TRAYS

Product Information

A two-phase epoxy ink characterized by a high degree of adhesion to a variety of "difficult" surfaces such as ceramics, phenolics, polyesters, melamines, silicones as well as ferrous and non-ferrous metals and glass. They exhibit excellent resistance to solvents and chemicals.

Mixing: The ER Series Gloss Ink, with the exception of the ER171 Clear for Gold, should be handled in the following manner: stir colors in the container thoroughly, then add exactly one (1) fluid ounce of ER176 Catalyst to four (4) fluid ounces of color. This combination should be mixed well and allowed to stand for a period of thirty to forty-five minutes. This time lag, referred to as the "induction period" is necessary to allow the catalyst to become uniformly mixed and available for the polymerization process. Only mix quantities of ink that will be used in a 5 to 6 hour period as the ink will gel and become unusable after this time.

The ERF Series Flat Inks should be handled in the following manner; stir colors in the container thoroughly, then add exactly one (1) fluid ounce of ER176 Catalyst to five (5) fluid ounces of color. The same induction period is required for these colors as for the ER-Series Gloss Inks.

The ER171 Clear for Gold has been expressly formulated to give maximum brilliance to gold bronze when used with epoxy inks. This ink uses a different catalyst and a different ratio of catalyst than all other inks in this series. To catalyze the clear, use one (1) volume of ER171 Clear and (1) volume of ER177 Catalyst. For every one gallon of catalyzed material use approximately 2 pounds of gold bronze powder or 3/4 of a pound of aluminum powder.

When using these inks, always use clean equipment for the mixing of colors and be sure that the surface to be printed is clean and free of grease and dirt. Improperly cleaned surfaces may result in imperfections in the ink film. These may take the form of craters or crawling of the ink. If this problem is encountered, the surface should be cleaned with alcohol to insure the removal of grease and dust.

These inks are not recommended for outdoor use.

Application Information

Drying: By polymerization. These inks require the addition of a catalyst immediately prior to use. Air dry



from 2 - 3 hours but 7 - 10 days are required for maximum adhesion and chemical resistance. Curing recommended as follows: 180°F - 30 minutes; 250°F - 10 minutes; 300°F - 7 minutes; 350°F - 4 minutes. Additional aging may be necessary for maximum chemical and abrasion resistance.

Opacity: All colors are opaque.

Coverage: 1200 to 1800 square feet per gallon.

Thinners: RE180 Thinner, RE182 Retarder.

Additives: ER176 Catalyst (see description), ER177 Catalyst for Gold, ER170 Gloss Clear.

Fabrics: 200 to 305 monofilament mesh.

Stencils: Photographic (direct or indirect) or water soluble hand cut film.

Wash Up: RE180 Thinner.

Packaging: Available in quart and gallon containers. ER176 Catalyst available only in half-pint and quart containers. Thinners also available in five gallon containers.

Color Range

ER102	Fire Red
ER105	Cadmium Red
+ ER111	Black
+ ER112	White
+ ER114	Brown
ER124	Orange
ER131	Cadmium Yellow (Primrose Shade)
ER135	Medium Cadmium Yellow
ER142	Emerald Green
+ ER146	Permanent Green
+ ER157	Royal Blue
+ ER159	Permanent Blue
+ ER164	Cerise
+ ER170	Gloss Clear
+ ER171	Clear for Gold
+ ERF111	Flat Black
+ ERF112	Flat White
+ ERF172	Flat Clear
+ ER176	Catalyst
+ ER177	Catalyst for Gold
+ BE173	Flow Control Agent
+ RE180	Thinner
+ RE182	Thinner Retarder

It is the printer's responsibility to pre-test the ink selected prior to engaging in a production run.

+ Based on information from our suppliers, these products are made from raw materials that contain less than 0.06% lead. If necessary, written certification of lead content and/or other heavy metals can be obtained through an independent laboratory. These products meet the CONEG toxic packaging legislation through random testing by an independent laboratory.

See **Caution**, pages 5 and 30.