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## CATALYSED SCREEN INKS

**CATALYSED** screen inks are a range of two pack epoxy inks possessing excellent adhesion and chemical resistance. They cure to hard heat resistant films with good adhesion to a wide range of difficult substrates. These inks can be air-dried or heat cured. Depending on the hardener chosen, a matt or full gloss finish may be obtained.

**TYPE OF STENCIL:** Photographic or solvent resistant stencil.

**MESH/COVERAGE:** 90T – 120T monofilament screens are recommended. 110T mesh should give 20 sqm/kg.

**PRINTING:** Ink and Hardener (catalyst) must be weighed in the correct proportions and thoroughly mixed before use.

### HARDENER SELECTION

**S1053 Gloss Hardener:** Choose this hardener for maximum gloss and flexibility.  
 Mixing: 1 part hardener **by weight**  
 4 parts ink **by weight**  
 Pot life: 3– 4 hours

C63 Overprint Varnish should be mixed 2 parts ink: 1part S1053

**S2735 Gelled Hardener:** This hardener has exactly the same properties as S1053. Its thixotropic nature can be used to advantage where sharp detail or high build are important. Where pinholes are an intermittent problem when printing onto contaminated materials, using this hardener often cures the problem.

**S1025 Matt Hardener:** This hardener is intended for use where a matt result is required.

Mixing: 1 part hardener **by weight**  
 1 part ink **by weight**  
 Pot life: 6 hours

**S2629 Extra Matt Hardener:** This hardener also produces a matt finish, combined with a thixotropic consistency ideal for sharp detail printing. It gives a more consistent matt finish on long runs than the standard matt hardener S1025.

Mixing: 3 parts hardener **by weight**  
 10 parts ink **by weight**  
 Pot life: 4 hours

**S23100 Adhesion Promotor:** Increased adhesion to glass can be achieved by the addition of 3% S23100 to catalysed ink, before the addition of the catalyst.

<b>CURING SCHEDULES:</b>	Temperature	Touch Dry	Cured
	80C	5-7 mins	30 mins
	120C	2-3 mins	10 mins
	150C	1-2 mins	7 mins

At room temperature touch dry in about 3 hours, full chemical resistance and hardness however is not achieved until 5 days after printing.

<b>THINNING:</b>	Thinner	R11	5 – 10%
	Thinner/Cleaner	R13	
	Screen Wash	R20	

**COLOURS:** See price list for range of colours available.

**USES:** Most Metals, Ceramics, Glass, Phenolics, Ureas/Melamines, Acrylics, Stoved Enamels, Treated Polyethylene and Polypropylene, Nylon and some Polyesters. Prints subjected to long term outside exposure are prone to chalking. It is recommended that prints are overvarnished with an acrylic or alkyd varnish.