

Screen Colour Systems

Opaque Binder (AP 100) Technical Data Sheet

Application

Opaque Binder is an opaque textile printing base to which Aqua Colourants or Fluorescent Powders are added to make an opaque finished ink.

Finish and Opacity

Aqua Paque Binder makes matt opaque inks.

Mesh

Most types of mesh are suitable in gauges between 32 - 61 threads per cm.

Stencils

Most types of water resistant stencils may be used. Recommended direct emulsions are GT2002 AzoCoat T or GT2017 AzoCoat W.

Mixing

Aqua Colourants (ASP) should be added to the Opaque Binder at 8% maximum (by weight) of colour plus 2% of white. Fluorescent Powder should be added to the binder at 10% (by weight) plus 2% of white.

Printing and Drying

Customers can adjust the viscosity of the finished ink with the addition of up to 5% of water. The ink requires heat to cure and give a wash fast result. The curing schedule is 160°C for 4 minutes. What ever your circumstances you must test before and during the print run for correct curing. The addition of the catalyst (GT1234) will reduce both the time and temperature needed.

Catalyst and Pot Life

The catalyst (GT 1234) must be thoroughly mixed with the ink before use. The catalyst is only effective for 8 hours so only catalyse sufficient ink for use in that time period. This new catalyst will reactivate the ink another 2 times before the ink has to be disposed of. (The ink will still look OK to use, but after the third addition of catalyst, subsequent additions will not cure properly on the fabric and will give poor wash results.) GT 1234 can be used in various concentrations ranging from 0.5% to 2%. Without heat the catalysed ink will fully cure in 7 days time. Customers should test for the correct concentration of catalyst in their own printing and curing situation.

Wash Up

At the end of the print run used screens and squeegees must be cleaned. If you do not clean the mesh straight after printing, reclaiming the mesh may be impossible. We recommend warm water with 5 to 10% of AQ 1003 Degrease Gel to clean both mesh and squeegee.

Standard Packaging and Storage

Opaque Binder is packed in 1 kilo and 5 kilo containers. The binder should be stored in a cool (min 8°C) and well ventilated area. Opaque Binder will last up to 12 months if kept in sealed containers, in cool conditions.

This information is given in good faith but without guarantee. It remains the printer's responsibility to test each product for suitability under their own unique conditions. Screen Colour Systems has a policy of continuous development which may make this information out of date, in the event of any doubt customers are urged to contact the Screen Colour Systems Technical Service Department.