

**ARIA UV Overprint Varnish 085** has been designed to be printed on paper and board, exhibiting very high cure speed, high gloss and limited flexibility. It is one of the most economical UV formulations for this type of applications. Other features include excellent adhesion, non-yellowing properties as well as excellent clarity and no haze.

## SUBSTRATES

**ARIA UV Overprint Varnish 085** exhibits excellent adhesion on the following substrates:

### Paper/Cardboard

Note: **UV Overprint Varnish 085** can be used on other substrates but appropriate tests must be conducted prior to production.

*Due to the unlimited types and nature of the substrates presently used in screen printing, some of which could be beyond the control of our laboratory, we strongly recommend that complete tests of adherence and other particular requirements to be performed by the end user prior to production. Aria stands behind the quality of its products. However, Aria cannot guarantee final results since Aria has no control over individual operating conditions and production procedures. Clients are solely responsible to test Aria's products to determine if they perform as expected during the printed item's entire life cycle from printing to end of the item's life. Any liability associated with the use of this product is limited to the value of the product purchased from Aria.*

## PRINTING PARAMETERS

**Screen:** Screens made from a monofilament polyester fabric, plain weave, having 350 to 420 mesh and 31/34 micron thread are recommended. Particular attention is to be paid to the film thickness.

**Squeegee:** A polyurethane squeegee of 75-85 duro is recommended. As it was already mentioned, the angle of the squeegee, its sharpness, its pressure and the off-contact are some of the related parameters which must be correctly adjusted in order to obtain optimum performance.

**Stencil:** Direct emulsions or thin capillary films that are UV compatible and solvent resistant are recommended.

**Coverage:** A medium value of 3500 square feet per gallon could be expected. This value is influenced by the film thickness and the absorbent properties of the substrate.

## CURING PARAMETERS

**ARIA UV Overprint Varnish 085** is a "press ready" UV varnish. Any additional photo initiator or other curing promoting agent is not required to be added to the varnish to cure it in normal conditions. This product exhibits exceptional fast cure speeds at low values of UV energy. A regular medium pressure mercury vapor UV lamp is recommended. For optimum performance the output of the lamp has to be above 200 mJ/cm<sup>2</sup> and 300 mW/cm<sup>2</sup>. We underline that the common idea that additional quantities of photo initiators will automatically enhance the cure speed do not always correspond to the reality. A screening effect could occur, having as consequence a lack of through cure, lack of adhesion and brittleness of the final film.