

## ICA POLYESTERS

Polyesters are typically a mix of three components -basic resin, accelerator (generally cobalt) and a catalyst (peroxide base). A highly complex cross linking reaction also involving the reducer takes place when all three components are mixed, resulting in an extremely full bodied film with notable surface hardness.

Designed for full fill finishes, ICA has the full range of products including "Polyesterino" with separate base and top coats; whether clear or pigmented, gloss or matte, and "Paraffinated Polyester" for full gloss only. Extremely easy to sand and yet with almost no shrinkage even in the long term, ICA Polyesters will remedy your closed pore nightmares.



### FEATURES

- Extremely high solids (65 - 90%)
- Superb chemical and physical resistance
- Excellent sheen retention
- Best high gloss available
- Very low VOC's
- Buildable without fear of checking
- Extremely easy to sand, but without high levels of extenders
- Quick drying
- Possibility of wet on wet cycles
- Very limited yellowing
- Almost non existant shrink back
- Comparatively simple to apply
- Completely formaldehyde free

	N/C	PRE-CAT	CONVERSION	PE
GENERAL DURABILITY	4	3	2	1
STAIN RESISTANCE	3	2	2	1
HEAT RESISTANCE	5	4	3	1
MOISTURE RESISTANCE	3	2	2	1
SOLVENT RESISTANCE	5	4	2	1

Key: 1= excellent, 5= poor

These results were obtained in our laboratory and are similar to AWI standards as described in the Architectural Woodwork Quality Standards of 1997 (Section 1 500 - G - 7 & G4).



### BENEFITS

- Looks like - and stays looking like a mirror
- No more fear with putting down hot cups or wine spills
- Far fewer coats than with conventional materials
- Wet on wet cycles mean fewer sanding steps and faster processes
- The ultimate "piano finish"
- Can be used to build, with polyurethane as a top coat

### APPLICATIONS

As polyester is extremely hard and resistant, it can be used in heavy wear areas when a full fill, closed pore finish is desirable. Filling chip board or other materials without putty is also possible, and mixed cycles using polyester base coat are common. Whenever a stable and long lasting full finish is desirable, ICA polyesters should be considered.

To ensure optimum results however, and because polyester is initially more difficult to use than standard coatings, care needs to be taken prior to and during application.

Our recommendations therefore include:

- 1 Extreme care should be taken when measuring the catalyst U100 to maintain 2% Over- or under-catalysation will adversely effect the final result
- 2 To ensure adhesion in most cases we recommend the prior application of an "isolating coat"
- 3 Not as flexible as PU, polyester is not suitable for external use
- 4 Care in the storage and handling of A110 and U100 must be used - they are inflammable in direct contact
- 5 Avoid storing in hot conditions
- 6 Be aware of the shorter pot and shelf life
- 7 Follow all mixing instructions very closely - including which order to mix the materials in
- 8 Use only PE grade acetone or PE thinner
- 9 Ensure a sufficiently large nozzle is used -typically 2.2mm to 2.5mm- for polyesterino, and 2.5mm to 3mm for paraffinated polyesters

The ICA range of polyesters available in the USA includes both the paraffinated (ideal for large high gloss surfaces) and "polyesterino" series (with separate base and top coat) in clear, black and white. Other colours are available on request with a lead time.



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