## **Printing & Packaging**

**Technical Data Sheet** 

Joncryl<sup>®</sup> 652-A

Product Description	Joncryl <sup>®</sup> 652-A is an emulsion of a specialty resin developed for water-based inks and overprint varnishes.	
Key Features & Benefits	- Very hard resin - Rapid resolubility - Hydrophilic nature of the polymer - Can be used as a main or modifying resin	7
Chemical Composition	Carboxylated acrylic copolymer in water	
	Properties	
Typical Properties	Appearance Solid Content pH Acid value (as 100%) Viscosity at 25°C (Brookfield 60 rpm) Density at 25°C Tg Softening point (initial)	white emulsion 50% 3.0 130 100 cps 1.1 g/cm <sup>3</sup> 105°C approx. 180°C

## Applications

Joncryl<sup>®</sup> 652-A is an emulsion of a specialty resin designed for use in water-based inks and overprint varnishes. This product is recommended as effective modifying binders improving gloss, hardness, and heat resistance of formulations based on softer resins or grinding bases.

Joncryl<sup>®</sup> 652-A is recommended for applications such as:

- · Water-based inks
- A single let-down water-based overprint varnish on all flexographic inks for paper sacks and corrugated board applications
- Water-based paper/paperboard coatings
- · A binder in poster paints or drawing inks

When used in water-based inks, this product demonstrates excellent machine stability and resolubility, due to the hydrophilic nature of the polymers.

Its efficiency and heat resistance offers the possibility to use it as a let-down varnish on all flexographic inks for paper sacks and corrugated board (pre-print and post-print) applications. It is also compatible with resin emulsions for use in higher-end applications.

Other uses include paperboard coatings (neutralized or in emulsion form), paper coatings, or as a binder in poster paints or drawing inks.

We create chemistry

The efficiency of Joncryl<sup>®</sup> 652-A is demonstrated by its concentration needed to reach a given viscosity, as shown in the table below:



Safety Data Sheet	All safety information is provided in the Safety Data Sheet for Joncryl <sup>®</sup> 652-A.	
General	The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.	
	Safety	
Overprint varnishes	May be used as a sole or modifying resin in combination with an emulsion resin.	
Water-based flexographic inks	May be used as a let-down resin in conjunction with a grinding resin at about $7 - 20\%$ of total formulation.	
Recommended concentrations	Since any component present in a formulation can have significant impact on the overall ink properties, testing compatibility and dosage level prior to use is highly recommended.	
Crosslinking	Since Joncryl <sup>®</sup> 652-A is a carboxylated polymer, it will crosslink with a number of reagents, such as urea or melamine formaldehydes, azridines, or zinc or zirconium compounds.	
	In most cases, a significant increase in color development can be achieved by the use of the neutralized Joncryl <sup>®</sup> 652-A as a let-down resin for pigment grinding bases. For suitable grinding resins, please contact our Technical Service Department.	

## Important

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