

Joncryl[®] 1954

Product Description	Joncryl 1954 is an acrylic emulsion for industrial waterborne wood coating applications.
Key Features & Benefits	<ul style="list-style-type: none">- Quick dry characteristics- Excellent hardness- High gloss- Block resistance
Chemical Composition	Acrylic emulsion

Properties

Typical Properties	Appearance		semi-translucent emulsion
	Non-volatile at 145°C (2g, 60 minutes)	%	47
	pH at 25°C		8.5
	Viscosity (Brookfield #2 spindle, 30 rpm, 30 seconds)	cps	500
Typical Characteristics	Density at 20°C	g/cm ³ (lbs/gal)	1.04 (8.68)
	MFFT	°C	27
	Tg	°C	38
	Freeze-thaw stable		Yes

* These typical values should not be interpreted as specifications.

Applications

Joncryl 1954 is an acrylic emulsion for use in high gloss, fast dry wood coatings. It is recommended in applications where fast dry, good block resistance, and high gloss are of importance.

Joncryl 1954 is recommended for applications such as:

- Interior waterborne wood coatings for furniture or millwork applications

Formulation Guidelines

Formulation Solvent – The use of very low levels of solvent is recommended to assist film formation. Solvents such as Ethylene glycol mono butyl ether or fast propylene-series glycol ethers can be used for this purpose. Azeotropic solvents such as ethanol or isopropyl alcohol can be used to speed up dry times. Typically, a small percentage of these alcohols (2 – 7% by weight on total formula) will have a significant impact on dry time.

A small amount of dimethyl ethanolamine (DMEA) can be added to prevent fast drying coatings from blistering under heated conditions. Typically, 2 pounds of DMEA per 100 gallons of formula helps keep the surface of the coating open long enough to permit solvent release without blistering.

Slip Additives – Joncryl Wax 26 can be used at levels of 2 – 5% (wax solids on resin solids) to further enhance slip and mar resistance.

Sanding Aids – Joncryl Wax 26 at a level of 2% (wax solids on resin solids) will also increase the sandability of sealers formulated with Joncryl 1954.

Starting Point Formulation

The following starting point formulation is recommended for an initial evaluation of Joncryl 1954. Additional optimization of the formulation may be required to achieve desired results for specific applications.

Joncryl 1954 CLEAR LACQUER DIP COAT, Formula 1954-1

Materials	Pounds	Gallons
Blend:		
Joncryl® 1954	781.1	90.19
Ethylene glycol mono butyl ether	30.9	4.12
Joncryl® Wax 26	38.7	4.72
Hydropalat® WE 3650	8.09	0.97
Water – adjust for application viscosity		
Total	858.79	100.0

Formulation Attributes

Solids	44.2% by wt, 44.0% by volume
pH	8.4
Viscosity	300 cps
Density	8.58 lbs/gal
VOC (calculated)	82 g/l, 0.68 lbs/gal

Safety

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 Data Sheet

All safety information is provided in the Safety Data Sheet for Joncryl 1954.

Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure.

Important

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