

Joncryl[®] 95

Product Description	Joncryl 95 is an acrylic emulsion for industrial waterborne wood stain applications.
Key Features & Benefits	<ul style="list-style-type: none">- Ultra-fine particle size- Minimal grain raising- Good color development
Chemical Composition	Acrylic emulsion

Properties

Typical Properties	Appearance	transparent emulsion
	Non-volatile at 145°C (2g, 30 minutes)	30%
	pH at 25°C	8.0
	Viscosity at 25°C (Brookfield #2LV, 60 rpm, 30 seconds)	100 cps
	Density at 20°C	1.04 g/cm ³ (8.73 lbs/gal)
Typical Characteristics	MFFT	20°C
	Tg	43°C
	Freeze-thaw stable	Yes

These typical values should not be interpreted as specifications.

Application

Joncryl 95 is an ultra-fine particle size, acrylic emulsion designed for use in wood stain applications. It provides solution-like appearance and penetration properties along with reduced grain raising.

Joncryl 95 is recommended for applications such as:

- Interior waterborne wood coatings for furniture or millwork applications

Formulation Guidelines

Formulation Solvent – The use of very low coalescent levels is possible due to the film forming characteristics of Joncryl 95. Typical levels of 5% diethylene glycol mono butyl ether or dipropylene glycol n-propyl ether based on resin solids are recommended.

Solvents can also contribute to improved open time characteristics. Diethylene glycol mono butyl ether or propylene glycol can be utilized for this purpose. Levels between 2 – 4% by weight based on the total formula are recommended.

Pigment Choice for Stains – Joncryl 95-based stains can be pigmented in a number of ways:

1. Dry pigments can be introduced into a water/surfactant grind.
2. Pre-dispersed colorants can be used for convenience.

Processing Caution

Since Joncryl 95 is not a Rheology Controlled (RC) emulsion, pigments cannot be dispersed directly into this polymer.

Starting Point Formulation

The following starting point formulation is recommended for an initial evaluation of Joncryn 95. Additional optimization of the formulation may be required to achieve desired results for specific applications.

Joncryn 95 INTERIOR WIPING STAIN, Formula 331-J

Materials	Pounds	Gallons
Water	707.0	84.9
Laponite ² RD	10.7	0.5
Disperse at 1000 rpm for 10 minutes		
Aqualon ³ CMC 12M8 ⁴	4.8	0.4
Add slowly under agitation; disperse at 1500 rpm for 15 minutes		
Slow rpm to 1000 before adding the remaining materials:		
Propylene glycol	15.5	1.8
Dipropylene glycol methyl ether	7.9	1.0
Irgasperse [®] U Yellow 136 liquid	4.2	0.5
Irgasperse [®] U Red 346 liquid	2.6	0.3
Tint-Ayd ⁵ CW 5509 Burnt Umber	27.2	2.3
Chroma-Chem ⁶ 896-9901 Lamp Black	3.3	0.4
Joncryn 95	68.1	7.8
Nuosept ⁷ 95	1.5	0.2
Total	852.8	100.00

Formulation Attributes

Solids	6.3% by wt, 4.0% by volume
Density	8.53 lbs/gal
VOC (calculated)	3.2 lbs/gal, 414 g/l

²Registered trademark of BYK Additives

³Trademark of Ashland Inc.

⁴Please contact the manufacturer for availability.

⁵Registered trademark of Elementis Specialties, Inc.

⁶Registered trademark of Chromaflo Technologies Corporation.

⁷Registered trademark of ISP Investments Inc.

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 Joncryn 95.

Storage

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

Important

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