

Industrial Coatings

Technical Data Sheet

Joncryl[®] 1916



Product Description Joncryl[®] 1916 is an acrylic emulsion for hardboard/door skin primer coatings.

Key Features & Benefits

- Excellent dry and wet block resistance
- Good water resistance
- Low VOC
- Good adhesion

Chemical Composition Acrylic emulsion

Properties

Typical Properties	Appearance	semi-translucent emulsion
	Non-volatile at 145°C (1g, 60 minutes)	46%
	pH at 25 ± 1°C	8.3
	Viscosity at 25°C (Brookfield #3LV, 30 rpm, 30 seconds)	1900 cps
Typical Characteristics	Density at 20°C	1.04 g/cm ³ (8.66 lbs/gal)
	Acid number on solids	61
	MFFT	< 5°C
	Tg	17°C
	Freeze-thaw stable	Yes

These typical values should not be interpreted as specifications.

Applications

Joncryl[®] 1916 is an acrylic emulsion for hardboard/door skin primer coatings. Although its block-resistant properties are similar to Joncryl[®] 1915, it provides far better water resistance.

Joncryl[®] 1916 is recommended for applications such as:

- Interior/exterior primers on wood, hardboard, cement fiberboard, and composite wood applications

Performance Evaluation

Each primer was applied to medium density fiberboard (MDF), cured at 350°F, until a board surface temperature of 180°F was achieved. The primer was then removed from the oven and either tested for block resistance, face-to-face, or cooled for water resistance testing. The dry film thickness was 1 mil.

Blocking at 400 psi

Primer	Results
Joncryl [®] 1915	No block
Joncryl [®] 1916	No block
Joncryl [®] 1919	Slight tack

Water Resistance Measured by Cobb Testing Method

Primer	Cobb Units
Joncryl® 1915	59.70
Joncryl® 1916	8.76
Joncryl® 1919	6.37

Starting Point Formulation

The following starting point formulation is recommended for an initial evaluation of Joncryl® 1916. Modification of the formulation may be required to achieve desired results for specific applications.

Joncryl® 1916 HARDBOARD PRIMER, Formula 609-AE

Materials	Pounds	Gallons
Joncryl® 1916	247.40	28.57
Water	29.90	3.60
FoamStar® SI 2292 NC	4.40	0.59
DMEA (dimethyl ethanolamine)	2.60	0.36
Ti-Pure ¹ R-902	131.60	3.95
Atomite ² Calcium carbonate	391.90	17.42
Disperse to 5 Hegman grind		
Let-down:		
Water	215.40	25.85
Joncryl® 1916	164.90	19.13
FoamStar® SI 2292 NC	2.20	0.30
Rheovis® PU 1250 NC	2.10	0.23
Total	1,192.40	100.0

Formulation Attributes

Solids	60.07% by wt, 42.68% by volume
Density	11.92 lbs/gal
PVC	50%
VOC (calculated)	24.8 g/l, 0.21 lbs/gal

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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® 1916.

Important

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