Industrial Coatings

Technical Data Sheet

Joncryl® 1915

We create chemistry

Product Description **Joncryl® 1915 is a low-cost, block-resistant acrylic emulsion for hardboard primer coatings.**

Key Features & Benefits

- Block resistance
- Excellent adhesion
- Low VOC
- Pigment dispersing capability

Chemical Composition **Acrylic emulsion**

Properties

Typical Properties

Appearance	semi-translucent emulsion
Non-volatile at 145°C (2g, 30 minutes)	44%
pH at 25°C	8.5
Viscosity at 25°C (Brookfield #2LV, 30 rpm, 30 seconds)	800 cps

Typical Characteristics

Density at 20°C	1.02 g/cm^3 (8.63 lbs/gal)
MFFT	0°C
Tg	43°C
Freeze-thaw stable	No

These typical values should not be interpreted as specifications.

Applications

Joncryl® 1915 is a unique acrylic emulsion that has a low minimum film forming temperature, yet offers excellent block resistance. Joncryl® 1915 is ideally suited for high PVC primers used over hardboard and composite wood substrates.

Joncryl® 1915 is recommended for applications such as:

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

Formulation Guidelines

Solvent Levels - Normal primer cure temperatures range from 180 – 250°F maximum board surface temperature. This is generally enough heat to obtain a good performing film, even at PVCs in excess of 55. The addition of low levels of ethylene glycol mono butyl ether, propylene glycol t-butyl ether or propylene glycol n-butyl ether, may further enhance film formation. Caution should be taken not to include too much solvent, as this may encourage blistering or blocking of the coating.

Performance Evaluation

Approximately two wet mils of coating was applied to medium density fiberboard. The panel was baked for 15 minutes at 300°F in an oven. The panel was then immediately placed in an IR oven until a board surface temperature (BST) of 250°F was reached. The panel was allowed to cool to a BST of 150°F before a face-to-face block test was performed. The panel was allowed to cool for a total of 15 minutes before a tape adhesion test was performed.

Block test at 250 psi	No blocking
Adhesion test	Little adhesion failure at coating/substrate interface; mostly substrate failure

Starting Point Formulation

The following starting point formulation is recommended for an initial evaluation of Joncryl® 1915. Modification of the formulation may be required to achieve desired results for specific applications.

Joncryl® 1915 HARDBOARD PRIMER, Formula 609-A

Materials	**Pounds**	**Gallons**
Joncryl® 1915	245.6	28.45
FoamStar® SI 2292 NC	4.2	0.56
Ti-Pure[1] R-902	239.1	7.18
DMEA (Dimethyl ethanolamine)	2.5	0.34
Water	37.1	4.45
Atomite[2] Calcium carbonate	439.1	19.52
Disperse to 5 Hegman		
Let-down:		
Water	34.0	4.09
Joncryl® 1915	163.7	18.97
Water	132.8	15.94
FoamStar® SI 2292 NC	2.1	0.28
Rheovis® PU 1250 NC	2.0	0.22
Total	**1,302.2**	**100.00**

Formulation Attributes

Solids	66% by wt, 49% by volume
Viscosity (Zahn #2)	57 seconds (100 cps)
VOC (calculated)	22 g/l, 0.2 lbs/gal

[1]Trademark of The Chemours Company.
[2]Registered trademark of ECC America Inc. Corporation.

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® 1915.

Important

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