

# Joncryl<sup>®</sup> 1919

**Product Description** Joncryl 1919 is a block-resistant acrylic emulsion for hardboard primer coatings.

**Key Features & Benefits**

- **Block resistance**
- **Excellent water resistance**
- **Excellent adhesion**
- **Low VOC**

**Chemical Composition** Acrylic emulsion

## Properties

|                           |                                                                       |                             |                           |
|---------------------------|-----------------------------------------------------------------------|-----------------------------|---------------------------|
| <b>Typical Properties</b> | Appearance                                                            |                             | semi-translucent emulsion |
|                           | Non-volatile at 145°C<br>(2g, 30 minutes)                             | %                           | 47                        |
|                           | pH at 25 ± 1°C                                                        |                             | 8.0                       |
|                           | Viscosity at 25.0 ± 0.2°C<br>(Brookfield #3LV, 30 rpm,<br>30 seconds) | cps                         | 1600                      |
|                           | Density at 20°C                                                       | g/cm <sup>3</sup> (lbs/gal) | 1.04 (8.70)               |
|                           | MFFT                                                                  | °C                          | 19                        |
|                           | Tg                                                                    | °C                          | 29                        |
|                           | Freeze-thaw stable                                                    |                             | No                        |

These typical values should not be interpreted as specifications.

## Applications

Joncryl 1919 is a unique acrylic emulsion that exhibits low minimum film forming temperature yet offers excellent block and water resistance. Joncryl 1919 is ideally suited for high PVC primers used over hardboard and cement fiberboard substrates.

Joncryl 1919 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 PVC's in excess of 55. The addition of low levels of ethylene glycol mono butyl ether, propylene glycol t-butyl ether or propylene glycol mono 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 a high velocity 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 1919. Modification of the formulation may be required to achieve desired results for specific applications.

### Joncryl® 1919 HARDBOARD PRIMER, Formula 609-K

| Materials                              | Pounds         | Gallons       |
|----------------------------------------|----------------|---------------|
| Joncryl® 1919                          | 236.3          | 27.42         |
| Water                                  | 48.8           | 5.86          |
| FoamStar® SI 2292 NC                   | 4.3            | 0.58          |
| Dimethyl ethanolamine (DMEA)           | 2.6            | 0.35          |
| Ti-Pure <sup>1</sup> R-902             | 245.8          | 7.38          |
| Atomite <sup>2</sup> Calcium carbonate | 451.4          | 20.06         |
| <b>Disperse to 5 Hegman</b>            |                |               |
| <b>Let-down:</b>                       |                |               |
| Water                                  | 163.0          | 19.56         |
| Joncryl® 1919                          | 157.5          | 18.27         |
| FoamStar® SI 2292 NC                   | 2.2            | 0.29          |
| Rheovis® PU 1250 NC                    | 2.1            | 0.23          |
| <b>Total</b>                           | <b>1,314.0</b> | <b>100.00</b> |

### Formulation Attributes

|                  |                              |
|------------------|------------------------------|
| Solids           | 67.3% by wt, 48.2% by volume |
| Viscosity        | 50 cps                       |
| PVC              | 57.0%                        |
| VOC (calculated) | 21 g/l, 0.17 lbs/gal         |

<sup>1</sup>Trademark of The Chemours Company.

<sup>2</sup>Registered trademark of ECC America Inc. Corporation.

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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 1919.

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## Storage

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

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