

# Architectural Coatings

## Technical Data Sheet

# Joncryl® 2990



### Product Description

Joncryl® 2990 is a self-crosslinking, acrylic emulsion for cementitious applications. The latex can be used in clear formulations for “wet look” concrete coatings or pigmented formulations for garage floor coatings. Joncryl® 2990 provides excellent chemical, hot tire pick-up, and weathering resistance. As well as, good dirt pick-up, hot tire and blush resistance.

### Key Features & Benefits

- *Applicable in Clear and Pigmented Paint Formulations*
- *Excellent early resistance to water blushing*
- *Excellent Chemical resistance*
- *Good dirt resistance*
- *Good adhesion to concrete*
- *Resistance to hot-tire pickup*
- *Capable of 50 g/L VOC*

### Chemical Composition

Acrylic emulsion

## Properties

### Typical Properties

Appearance		translucent emulsion
Solids content, weight	%	~ 46.0%
pH		~7.5
Brookfield Viscosity	cPs	< 400

### Typical Characteristics

Specific gravity	g/cm <sup>3</sup>	ca. 1.04
	lbs/gal	ca. 8.68
Average Particle size	µm	ca. 0.1
MFFT	°C	ca.18
Freeze-thaw stable		No

These typical values should not be interpreted as specifications.

## Applications

Joncryl® 2990 is a one-component, self-crosslinking acrylic emulsion for interior and exterior clear and pigmented coatings at 50 g/L VOC with good balance of properties on cementitious substrates. When used as a clear coat, Joncryl® 2990 gives a wet-look appearance on decorative concrete, natural and artificial stone, and brick. Key uses include residential garage floors, patio, and walkway coatings.

Joncryl® 2990 is recommended for applications such as:

- Exterior and interior decorative concrete,
- natural or artificial stone
- brick coatings

## Starting Point Formulations

The following starting point formulations is recommended for an initial evaluation of Joncryl® 2990. Additional optimization of the formulations may be required to achieve desired results for specific applications.

### Joncryl® 2990 clear formulation

Description	Quantity	Units
Joncryl® 2990	597.9	Lb
Water	12.8	Lb
Dowanol <sup>1</sup> DPnB	12.8	Lb
Optifilm <sup>2</sup> 400	8.6	Lb
Rheovis® PU 1215 (DSX 3515)	1.5	Lb
FoamStar® ST 2446 (Foamstar A-46)	0.6	Lb
WATER	214.1	Lb
Efka® SL 3030 (efka 3030)	1.9	Lb
Water	5.3	Lb
Total	100	Gal

	Calculation Results
% Weight Solids	33.0
% Volume Solids	31.9
PVC Ratio	0
VOC g/l minus water	50

### Joncryl® 2990 pigmented formulation

Description	Quantity	Units
Water	142.6	Lb
BYK <sup>3</sup> -024	4.0	Lb
Dispex® CS 4230	7.9	Lb
TiPure <sup>4</sup> R-706 (DU PONT)	136.1	Lb
MINEX <sup>5</sup> 7	68.0	Lb
ATTAGEL® 50	4.5	Lb
Rheovis® PU 1251 (DSX 3551)	3.7	Lb
Water	79.6	Lb
Dowanol <sup>1</sup> DPnB	10.6	Lb
Texanol <sup>2</sup>	5.3	Lb
Joncryl® 2990	501.5	Lb
K-Flex <sup>6</sup> 975P	20.0	Lb
BYK <sup>3</sup> -024	4.0	Lb
Joncryl® Wax 120	10.2	Lb
Rheovis® PU 1251 (DSX 3551)	4.0	Lb
Total	100	Gal

	Calculation Results
% Weight Solids	46.97
% Volume Solids	36.32
PVC Ratio	20.39
VOC g/l minus water	64

<sup>1</sup>Trademark of The Dow Chemical Company.

<sup>2</sup>Trademark of Eastman Chemical Company.

<sup>3</sup>Trademark of BYK-Chemie GmbH.

<sup>4</sup>Trademark of E.I. Du Pont de Nemours and Company.

<sup>5</sup>Trademark of Unimin Canada Ltd.

<sup>6</sup>Trademark of Emerald Kalama Chemical, LLC.

## 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® 2990.

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