

Industrial Coatings

Technical Data Sheet



Joncryl® 2981

Product Description	Joncryl® 2981 is an all acrylic, self-crosslinking dispersion for industrial coating applications.
Key Features & Benefits	<ul style="list-style-type: none">- <i>Excellent chemical resistance</i>- <i>Weatherability</i>- <i>Disperses titanium dioxide pigment</i>- <i>Excellent clarity and warmth of wood</i>- <i>Very good block resistance</i>
Chemical Composition	All acrylic dispersion

Properties

Typical Properties	Appearance	semi- translucent emulsion
	Non-volatile at 145°C (2g, 60 minutes)	~ 44.5 %
	pH at 25°C	~ 8.2 – 9.4
	Viscosity at 25°C (Brookfield #2LV, 30 rpm, 60 seconds)	< 500 cps
Typical Characteristics	Density as supplied	8.6 lbs/gal
	MFFT	45°C
	Freeze-thaw stable	No

These typical values should not be interpreted as specifications.

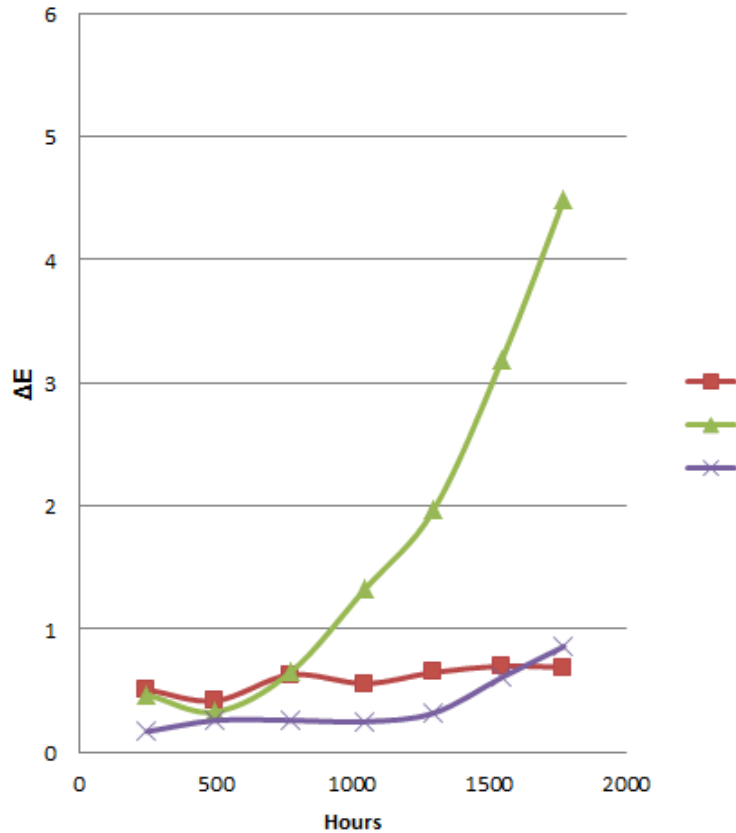
Applications

Joncryl® 2981 is a one-pack, self-crosslinking acrylic dispersion that is non-formaldehyde emitting. A key use is for wood coatings that require resistance to various chemicals. This dispersion offers excellent clarity, weatherability, and excellent chemical resistance. The chemical resistance of Joncryl® 2981 may allow its use in other applications, such as concrete coatings, specialty hardboard, metal, and plastics.

Joncryl® 2981 is recommended for applications such as:

- Interior wood applications, such as furniture, kitchen cabinets, and moldings
- Exterior wood / metal applications, such as joinery and building products

Weatherability of clear coats



Xenon Weatherometer, (Q-Sun, G-155, cycle 1) – 1,949 hours

Starting Point Formulations

The following starting point formulations are recommended for an initial evaluation of Joncryl® 2981. Additional optimization of the formulations may be required to achieve desired results for specific applications.

Joncryl® 2981 CLEAR SEALER / TOPCOAT, Formula 32004 - 6

Materials	Pounds	Gallons
Joncryl® 2981	567.45	64.70
Hydropalat® WE 3320	3.25	0.37
Premix the next three (3) materials:		
Water	188.38	22.60
Dowanol ¹ DPM	22.24	2.79
Dowanol ¹ DPnB	46.92	6.20
Then add:		
FoamStar® ST 2436	1.78	0.22
Joncryl® Wax 26	21.12	2.58
Hydropalat® WE 3322	1.52	0.18
Hydropalat® WE 3370	0.54	0.06
Rheovis® PU1250 NC	2.64	0.30
Total	855.84	100

Formulation Attributes

Solids	31.04% by wt, 30.35 % by volume
VOC (calculated)	214 g/l, 1.78 lbs/gal

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Testing Information

7-Day Chemical Testing (initial)

<u>Chemicals</u>	Joncryl® 2981 Formula# 32004-6	Joncryl® 1982 Formula# 32004-2	Joncryl® 1984 Formula# 32004-3
Water	0	0	0
Ethanol 50%	0	0	0
Ethanol 100%	0	2	2.5
IPA / Water (70 / 30)	2	2	2
Formula ² 409	0	0	2
Mustard	0	0	1
Detergent	0	0	0

Degree of effect: 0 = No effect; 1 = Very slight effect; 2 = Slight effect; 3 = Moderate effect; 4 = Severe effect

König Hardness (oscillations)

<u>Days</u>	Joncryl® 2981 Formula# 32004-6	Joncryl® 1982 Formula# 32004-2	Joncryl® 1984 Formula# 32004-3
1	42	62	63
4	69	101	105
7	73	106	106

²Registered trademark of The Clorox Company.

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.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Joncryl® 2981.

Important

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