

Industrial Coatings

Technical Data Sheet

Joncryl[®] PRO 1524



Product Description	Joncryl [®] PRO 1524 is an acrylic dispersion for high gloss corrosion-resistant coatings.
Key Features & Benefits	<ul style="list-style-type: none">- Exterior metal protection- Excellent adhesion- Excellent corrosion resistance- Good chemical resistance- Good weatherability- High gloss
Chemical Composition	Acrylic dispersion

Properties

Product Specifications	Appearance	semi-translucent emulsion
	Non-volatile at 145°C (1g, 60 minutes)	41.5 – 44.0%
	pH at 25°C	7.5 – 8.9
	Viscosity at 25°C (Brookfield #3LV, 30 rpm, 60 seconds)	250 – 1,750 cps
Typical Characteristics	Density at 20°C	8.80 lbs/gal
	MFFT	25°C
	Freeze-thaw stable	Yes

These typical values should not be interpreted as specifications.

Applications

Joncryl[®] PRO 1524 is an acrylic dispersion for direct-to-metal applications. It has excellent corrosion resistance without the use of anti-corrosive pigments as determined by Salt Spray Resistance ASTM B 117. Furthermore, this emulsion offers good chemical resistance, excellent wet and dry adhesion and can be formulated at VOC levels of less than 100 g/l VOC.

Joncryl[®] PRO 1524 is designed for industrial direct-to-metal applications that require a high gloss (> 80 at 60°) and exhibits an excellent balance of performance properties.

Joncryl[®] PRO 1524 is recommended for applications such as:

- Interior/exterior general metal industrial coating applications

Starting Point Formulations:

The following starting point formulation is recommended for an initial evaluation of Joncryl[®] PRO 1524. Additional optimization of the formulation may be desired to achieve maximum performance or appearance for specific applications. Note that solvent choice is critical to obtain optimal hardness and performance properties.

Joncryl[®] PRO 1524 HIGH GLOSS DTM, BASF System Solution 31829-141

Materials	Pounds	Gallons
<i>GRIND</i>		
DI Water	53.38	6.41
Dispex [®] CX 4230	3.50	0.38
Dispex [®] Ultra FA 4416	0.72	0.08
FoamStar [®] ST 2446	1.84	0.22
Ti-Pure ¹ R-900	150.14	4.51
High Shear Disperse for 20 minutes. Then add:		
DI Water	21.35	2.56
Increase pH to 9.2-9.3 with ammonium hydroxide		
<i>LET DOWN</i>		
Joncryl [®] PRO 1524	692.41	80.05
Grind (add grind to resin)	230.93	14.16
Ethylene glycol monobutyl ether	37.96	5.05
Nalzin ² FA-179	0.97	0.11
Rheovis [®] PU 1191	0.41	0.05
Hydropalat [®] WE 3322	4.81	0.58
Total	967.5	100.0

Formulation Attributes

Solids	47.1% by wt, 39.9% by volume
Viscosity (Stormer)	85-90 KU
PVC	11.3% by volume
VOC (calculated)	103 g/l

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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.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Joncryl[®] PRO 1524.

Important

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