

Industrial Coatings

Technical Data Sheet

Joncryl[®] PRO 1522 (old: Joncryl[®] 1522)



Product Description Joncryl[®] PRO 1522 is an acrylic emulsion for high gloss corrosion-resistant coatings.

Key Features & Benefits

- Exterior metal protection
- Thin film coating applications
- Corrosion resistant
- Good weatherability
- High gloss

Chemical Composition Acrylic emulsion

Properties

Typical Properties	Appearance	translucent emulsion
	Non-volatile at 145°C (1g, 60 minutes)	~ 45.0 %
	pH at 25°C	~ 9.0
	Viscosity at 25°C (Brookfield #2LV, 30 rpm, 60 seconds)	~ 150 – 950 cps
Typical Characteristics	Density at 20°C	8.8 lbs/gal
	MFFT	26°C
	Tg	34.0°C
	Freeze-thaw stable	Yes

These typical values should not be interpreted as specifications.

Applications

Joncryl[®] PRO 1522 is an emulsion 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. This emulsion offers exterior durability, is compatible with anti-corrosive pigments, and can be formulated between 100 – 250 g/l VOC.

Joncryl[®] PRO 1522 is recommended for applications such as:

- Interior/exterior general metal industrial coating applications
- OEM industrial direct-to-metal applications that require high gloss (> 80 at 60°) and a dry film thickness of 25 – 40 microns (1 – 1.5 mils).

Starting Point Formulations:

The following high gloss white DTM formulations are recommended for an initial evaluation of Joncryl® PRO 1522. Additional optimization of the formulation may be desired to achieve maximum performance or appearance for specific applications.

Joncryl® PRO 1522 FORMULA BASF System Solution 33430-56

Materials	Pounds	Gallons
<i>GRIND</i>		
DI Water	48.10	5.76
Dispex® CX 4230	1.92	0.21
Dispex® Ultra FA 4416	0.44	0.05
FoamStar® ST 2446	2.41	0.29
Ti-Pure ¹ R-900	140.06	4.19
High Shear Disperse for 20 minutes. Then add:		
DI Water	20.52	2.46
<i>LET DOWN</i>		
Joncryl® PRO 1522	640.42	74.04
DI Water	18.97	2.27
Dipropylene glycol n-butyl ether (DPnB)	35.59	4.71
Texanol ²	19.93	2.52
Propylene glycol n-butyl ether (PnB)	19.93	2.73
Rheovis® PU 1191	1.14	0.13
Flash-X ³ 150	4.74	0.50
Hydropalat® WE 3370	1.19	0.14
Total	955.4	100.0

Formulation Attributes

Solids	44.1% by wt, 36.7% by volume
Viscosity (Stormer)	85-90 KU
PVC	11.4 % by volume
VOC (calculated)	198 g/l

Joncryl® PRO 1522 LOWER VOC/IMPROVED EARLY WATER SOAK (EU), FORMULA 31016-135

Materials	Pounds	Gallons
DI Water	81.54	9.79
Dispex® Ultra PX 4575	14.89	1.67
Hydropalat® WE 3650	0.73	0.09
FoamStar® SI 2210 NC	1.25	0.16
Ammonium Hydroxide (28%)	0.73	0.08
Tioxide ⁴ TR93	186.30	5.58
Grind for 30 minutes at 3,400 rpm or to 7 Hegman. Then add:		
Joncryl® PRO 1522	617.11	70.45
Premix:		
DI Water	19.37	2.32
Propylene glycol n-butyl ether (PnB)	28.12	3.85
Dipropylene glycol n-butyl ether (DPnB)	28.12	3.72
Then add:		
FoamStar® SI 2210 NC	0.83	0.11
Benzoflex ² 9-88	13.85	1.48
Flash-X ³ 150	6.77	0.71
Total	999.6	100.0

Formulation Attributes

Solids	48.9% by wt, 40.0% by volume
Viscosity (Stormer)	55-60 KU
PVC	13.9 % by volume
VOC (calculated)	< 150 g/l

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