

Joncryl[®] 9530-A

Universal self x-linking acrylic dispersion for interior wood coating with high wet film clarity and excellent chemical and scratch resistance

Key Features & Benefits

- *Very good chemical resistance*
- *High wet film clarity*
- *Excellent grain enhancement*
- *Excellent scratch resistance*
- *Small particle size*
- *Good hardness development*

Chemical Nature

Self-crosslinking acrylic dispersion

Properties

Typical Characteristics

Appearance		Translucent dispersion
Non-volatile content (DIN EN ISO 3251)	%	40.5
pH (DIN 19261)		7 - 8
Brookfield Viscosity at 25 °C	cps	<100
MFFT	°C	45
Freeze/thaw stable		No

These typical values should not be interpreted as specifications.

Application

Joncryl 9530-A is a self-crosslinking dispersion with very fine particle size and excellent grain enhancement. It also provides well balanced chemical resistance and a good scratch resistance for interior wood coating formulations.

Formulation guidelines

To ensure good film formation, the dispersion needs to be coalesced with common film forming agents, like butyl glycol, propyl n-butylether, butyl diglycol, dipropylene glycol-n-butyl ether, or with a mixture of film forming agents to optimize the performance of the dispersion. A total concentration of approx. 6-8 % on dispersion as supplied is recommended.

To reduce VOC content of the paint it can be useful to add a plasticizer to the formulation which remains in the film. Good results can be achieved with Loxanol[®] CA 5310. This product also shows a positive impact on blocking resistance.

To improve substrate wetting, it is advised to use a suitable wetting aid like Hydropalat[®] WE 3221. As defoamer, Foamstar[®] SI 2299 is effective for spray applications.

To adjust rheology of Joncryl 9530-A we recommend using Rheovis[®] PU 1192 or Rheovis[®] PU 1291 as associative thickener or Rheovis[®] HS 1212 as a pH dependent thickener.

Recommended Starting Point Formulations

The following starting point formulation is recommended for an initial evaluation of Joncryl 9530-A. Additional optimization of the formulation may be required to achieve desired results for specific applications.

Clear, High Gloss Formulation for Joncryl 9530-A

Materials	Pounds
Joncryl 9530-A	790
Foamstar SI 2210 NC	2
Joncryl Wax 26	10
Hydropalat WE 3221	3
Rheovis PU 1291	4
Mix for 15 min at 1000-1500 rpm	
Water	139
Butyl Glycol	40
Butyldiglycol	10
Foamstar SI 2210 NC	2
Mix for 10 mins at 1000-1500 rpm	
Adjust pH to 7.8-8.2	
Ammonium hydroxide, 28% soln	0
Mix for 10 min at 1000-1500 rpm	
TOTAL	1000

Formulation Attributes, Clear, High Gloss Formula

Solids, wt%	32.95
VOC	144 g/L

Clear, Matte Formulation for Joncryl 9530

Materials	Pounds
Joncryl 9530-A	300
Foamstar SI 2210 NC	2
Dispex Ultra PX 4290	2
Joncryl Wax 26	10
Acematt ¹ TS 100	10
Hydropalat WE 3221	3
Rheovis PU 1291	4
Mix for 15 min at 1500-2000 rpm	
Joncryl 9530-A	471
Water	146
Butyl Glycol	40
Butyldiglycol	10
Foamstar SI 2210 NC	2
Mix for 10 mins at 1000-1500 rpm	
Adjust pH to 7.8-8.2	
Ammonium hydroxide, 28% soln	0
Mix for 10 min at 1000-1500 rpm	
TOTAL	1000

Formulation Attributes, Clear, High Gloss Formula

Solids, wt%	32.26
VOC	144.8 g/L

White Pigment Formulation for Joncryl 9530-A

Materials	Pounds
Grind	
TiPure R-706	177
Attagel 50	2
Foamstar SI 2210 NC	4
Dispex AA 4144 EB	1
Water	50
Mix for 15 min at 3000 rpm	
Let Down	
Joncryl 9530-A	600
Joncryl Wax 26	10
Hydropalat WE 3221	3
Rheovis PU 1291	4
Water	109.5
Butyl Glycol	30
Butyldiglycol	7.5
Foamstar SI 2210 NC	2
Mix for 10 mins at 1000-1500 rpm	
Adjust pH to 7.8-8.2	
Ammonium hydroxide, 28% soln	0
Mix for 10 min at 1000-1500 rpm	
TOTAL	1000

Formulation Attributes, White Pigment Formula

Solids, wt%	32.26
PVC, %	15
VOC	144.8 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.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Joncryl 9530-A.

Storage

This product should be stored in tightly sealed original packaging at temperatures between 5 °C and 40 °C. This product must be protected from frost.

Important

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