

# Joncryl<sup>®</sup> 1907 and 1908

<b>Product Description</b>	Joncryl 1907 and 1908 are acrylic emulsions for industrial waterborne clear wood primer and varnish applications
<b>Key Features &amp; Benefits</b>	<ul style="list-style-type: none"><li>- <b>Pigment dispersing capability</b></li><li>- <b>Excellent adhesion</b></li><li>- <b>Fast dry</b></li><li>- <b>Formulation versatility</b></li><li>- <b>Unique rheology</b></li></ul>
<b>Chemical Composition</b>	Acrylic emulsions

Properties			
Typical Properties		<u>1907</u>	<u>1908</u>
	Appearance	translucent emulsion	opaque emulsion
	Non-volatile at 145°C	46% (60 minutes)	48% (40 minutes)
	pH at 25°C	8.3	8.3
Typical Characteristics	Viscosity at 25°C (Brookfield #2LV, 30 rpm, 30 seconds)	500 cps	500 cps
		<u>1907</u>	<u>1908</u>
	Density	1.04 g/cm <sup>3</sup> (8.67 lbs/gal) (25°C)	1.04 g/cm <sup>3</sup> (8.72 lbs/gal) (20°C)
	MFFT	20°C	100°C
	Tg	21°C	98°C
	Freeze-thaw stable	Yes	Yes

\* These typical values should not be interpreted as specifications.

## Applications

Joncryl 1907 and Joncryl 1908 are acrylic emulsions designed as a blending system to give hardness, block resistance and allow for maximum latitude in the formulation of clear, pigmented and fast dry coatings for wood surfaces.

Joncryl 1907 is a room temperature film forming polymer with good adhesion, flow, and water resistance. Joncryl 1908 is a very hard polymer that imparts excellent block resistance properties.

Joncryl 1907 and Joncryl 1908 are recommended for applications such as:

- Interior waterborne wood coatings for millwork and joinery applications

## Formulation Guidelines

Because of its high pigment loading capacity, wide range of hardness, and good adhesion, the Joncryl 1907 / Joncryl 1908 system is recommended as a candidate for primers and basecoats for hardboard and plywood substrates.

Specific formulations for primers and basecoats will depend on the substrate, application method, desired resistance properties, and cost parameters.

The following general formulation guidelines are suggested:

- The pigment dispersion should be prepared in Joncryl 1907 without additional dispersants; Joncryl 1908 should be added in the letdown portion.
- The ratio of Joncryl 1907 to Joncryl 1908 will depend on the desired degree of block resistance. Levels of TiO<sub>2</sub> should be consistent with the desired hiding power and color of the coating, as well as raw material cost consideration.
- Extender pigments may be selected from the wide range of commercially available materials; combination of platy talc and amorphous silica are recommended for exterior applications.
- A pigment volume concentration (PVC) of 40% will give a good balance of adhesion, block resistance, and raw material cost (3:1 ratio of 1907:1908).

#### Starting Point Formulation

The following starting point formulation for an air-dry clear varnish is recommended for an initial evaluation of Joncryl 1907 and Joncryl 1908. Additional optimization of the formulation may be required to achieve desired results for specific applications.

#### Joncryl 1907 and Joncryl 1908, CLEAR VARNISH, Formula 364-A

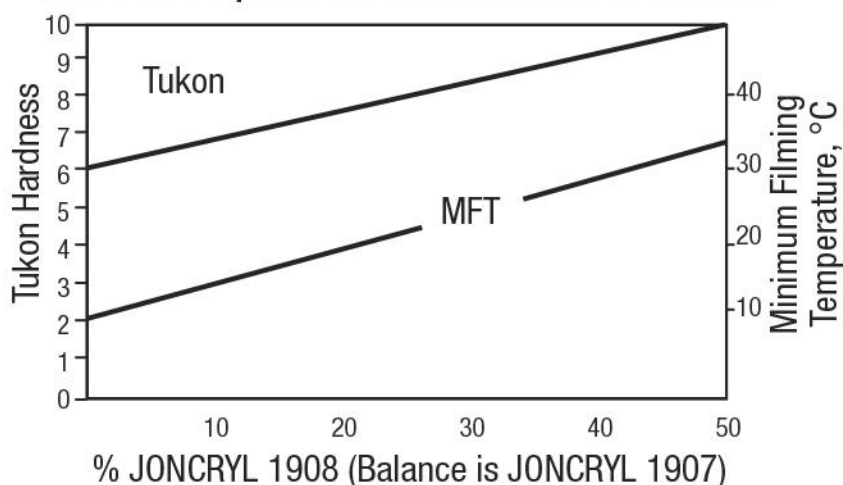
Materials	Pounds	Gallons
Joncryl® 1907	586.3	67.63
Joncryl® 1908	195.5	22.55
Ethylene glycol mono butyl ether	30.9	4.11
Joncryl® Wax 26	38.8	4.73
Hydropalat® WE 3229	8.8	0.98
<b>Total</b>	<b>860.3</b>	<b>100.00</b>

#### Formulation Attributes

Solids	44.1% by wt
pH	8.4
Viscosity (Brookfield)	300 cps
Density	8.59 lbs/gal

The Starting Point Formulation above is based on a combination of Joncryl 1907 and Joncryl 1908 in a weight ratio of 3:1 on solids. The dry film properties of the formulation can be altered by varying the ratio of Joncryl 1907 and Joncryl 1908 as shown in the graph below. Increasing amounts of Joncryl 1908 will give a harder, more block-resistant film; this will increase the minimum filming temperature slightly and may require additional coalescing solvent to ensure good film formation. The use of slower evaporating solvents is recommended for coalescing purposes when using high levels of Joncryl 1908 or in ambient dry situations where high humidity may be present.

#### Clear Film Properties of JONCRYL 1907/1908 Blends



## 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 1907 and Joncryl 1908.

---

## Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure.

---

## Important

WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, THEY ARE PROVIDED FOR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, BASF RECOMMENDS THAT THE READER MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR A PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF BASF'S TERMS AND CONDITIONS OF SALE. FURTHER, THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTIONS, DESIGNS, DATA OR INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT THE READER'S RISK.

*Joncryl and Hydropalat are registered trademarks of BASF Group.*

© BASF Corporation, 2025



BASF Corporation is fully committed to the Responsible Care® Initiative in the USA, Canada, and Mexico.

For more information on Responsible Care® go to:

U.S.: [www.basf.us/responsiblecare\\_usa](http://www.basf.us/responsiblecare_usa)

Canada: [www.basf.us/responsiblecare\\_canada](http://www.basf.us/responsiblecare_canada)

México: [www.basf.us/responsiblecare\\_mexico](http://www.basf.us/responsiblecare_mexico)

### BASF Corporation

Dispersions and Resins

11501 Steele Creek Road

Charlotte, North Carolina 28273

Phone: (800) 251 – 0612

Email: [CustCare-Charlotte@basf.com](mailto:CustCare-Charlotte@basf.com)

[www.basf.us/dpsolutions](http://www.basf.us/dpsolutions)