

# Joncryl<sup>®</sup> HPB 4030

<b>Product Description</b>	Joncryl HPB 4030 is a water resistant, heat sealable binder for replacing extruded wax or polyethylene coatings on paper substrates for cups, boxes, and other types of food packaging.
<b>Key Features &amp; Benefits</b>	<ul style="list-style-type: none"><li>- Excellent water resistance</li><li>- Heat sealable</li><li>- Good hot tack (bond strength at high use temperature)</li><li>- Low odor</li></ul>
<b>Chemical Composition</b>	RC acrylic emulsion

## Properties

<b>Typical Characteristics</b>	Appearance		translucent emulsion
	Non-volatile	%	40.0
	pH		7.5
	Acid number (NV)		28
	Viscosity at 25°C (Brookfield #2 LV spindle, 30 rpm)	cps	100
	Density at 25°C	g/cm <sup>3</sup>	1.08
	MFFT	°C	<5
	Freeze-thaw stable		No

## Applications

Joncryl HPB 4030 is a film forming, heat sealable, water resistant emulsion designed for applications where poly-coated board is currently used. Due to its good bond strength at high use temperatures, it is particularly suited for hot cups.

Performance is strongly dependent on dry film thickness; gravure or rod coating application works best.

Joncryl HPB 4030 is recommended for applications such as:

- Hot and cold cups
- Boxes, trays and other food packaging and food service items

## Starting Point Formulation

The following starting point formulations are recommended for initial evaluations of Joncryl HPB 4030. Further optimization of the formulations will be required to achieve desired results for specific applications. End use performance will be dependent on dry coat weight.

For end uses requiring excellent water resistance (20-minute Cobb < 2.0 g/m<sup>2</sup>) and good bond strength at elevated temperatures:

<b>1<sup>st</sup> layer</b>	
<b>Joncryl HPB 4010</b>	99.7%
<b>Sterocoll FS na</b>	0.2%
<b>Defoamer</b>	0.1%
<b>Water</b>	As needed for application viscosity
<b>Target dry coating weight: 8 gsm</b>	

<b>2<sup>nd</sup> layer</b>	
<b>Joncryl HPB 4030</b>	89.4%
<b>Joncryl DFC 3050</b>	10.0%
<b>Sterocoll FS na</b>	0.5%
<b>Defoamer</b>	0.1%
<b>Water</b>	As needed for application viscosity
<b>Target dry coating weight: 5 gsm</b>	

For single layer application:

<b>One layer</b>	
<b>Joncryl HPB 4030</b>	89.4%
<b>Joncryl DFC 3050</b>	10%
<b>Sterocoll FS na</b>	0.5%
<b>Defoamer</b>	0.1%
<b>Water</b>	As needed for application viscosity
<b>Target dry coating weight: 15 gsm, or as needed</b>	
<b>(lower coat weight → higher Cobb value)</b>	

## **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 practices, and wearing of protective goggles.

### **Safety Data Sheet**

All safety information is provided in the Safety Data Sheet for Joncryl HPB 4030.

## **Storage**

Please refer to the "Handling and Storage of Polymer Dispersion" brochure

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