

# Joncryl<sup>®</sup> HPB 4010

## Product Description

Joncryl HPB 4010 is a primer designed for use with Joncryl HPB 4030 topcoat binder, to achieve a highly water resistant, heat sealable coating for replacing extruded wax or polyethylene coatings on paper substrates for cups, boxes, and other types of food packaging.

## Key Features & Benefits (primer/topcoat system)

- Excellent water resistance
- Heat sealable
- Good block resistance
- Low odor

## Chemical Composition

RC acrylic emulsion

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## Properties

### Typical Characteristics (primer only)

Appearance		translucent emulsion
Non-volatile	%	42.0
pH		8.0
Acid number (NV)		30
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		Yes

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## Applications

Joncryl HPB 4010 is a film forming, water resistant, heat sealable binder, designed to be overprintable by Joncryl HPB 4030 in end uses that require two layers of coating to achieve optimal water resistance, heat sealability and bond strength at high use temperatures.

Joncryl HPB 4010 is recommended for applications such as:

- Hot and cold cups
- Boxes and other food packaging applications

## Starting Point Formulation

The following starting point formulations are recommended for initial evaluations of Joncryl HPB 4010. 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>	

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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 practices, and wearing of protective goggles.

### **Safety Data Sheet**

All safety information is provided in the Safety Data Sheet for Joncryl HPB 4010.

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## **Storage**

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

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