

Joncryl® 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 packaging.

- Key Features & Benefits

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

Chemical Composition

RC acrylic emulsion

Properties

Typical Properties

Appearance		translucent emulsion
Non-volatile @ 145°C (2g. 60 min) %		42.0
pH		~ 8.0
Viscosity @ 25°C	cps	~ 100
(Brookfield #2 LV spindle, 30 rpm)		
Acid value	(NV)	~ 30
Density @ 25°C	g/cm ³	1.08
Minimum film-forming temp	°C	<5
Freeze / Thaw Stable		yes

* These typical values should not be interpreted as specifications.

Application

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/m²) and good bond strength at elevated temperatures:

P1 layer	
Joncryl HPB 4010	99.7%
Sterocoll FS na	0.2%
Defoamer	0.1%
Water	As needed for application viscosity
Target dry coating weight: 8 gsm	

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

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 HPB 4010.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

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