

Joncryl[®] HPD 196

Key Features & Benefits

- *Allows high pigment concentrations*
- *Very good dispersion and ink viscosity stability*
- *Cost effective*

HIGH PERFORMANCE PIGMENT DISPERSION RESIN SOLUTION

General Information

Typical Physical Characteristics

Appearance	Clear solution
pH	8.6
Non-Volatile, %	36
Viscosity, cps*	3,800
Density at 25°C, g/cm ³	1.08
Acid Number, NV	200
Molecular Weight, Mw	9,200
Freeze/Thaw Stable	Yes
Tg, °C	85
Total VOC, % weight	0.4

*Brookfield LVF #3 spindle, 12 rpm, 25°C.
These typical values should not be interpreted as specifications.

Joncryl® HPD 196 is a 36% solids solution of a mid-range molecular weight acrylic resin in water and ammonia that is specifically designed to disperse organic pigments at high concentrations without compromising stability. This product also offers improved ink stability compared to traditional dispersion resin solutions.

STARTING POINT FORMULATION:

Pigment Dispersions:

The improved rheology characteristics of **Joncryl HPD 196** enable the manufacturer of high pigment loading, organic color dispersions that are viscosity stable under normal storage conditions.

	<u>Blue</u>	<u>Yellow</u>	<u>Red</u>	<u>Black</u>
SUNFAST® Blue 15:3	40.0	0.0	0.0	0.0
SUNBRITE® Yellow 14	0.0	37.5	0.0	0.0
CDR® 57-DT688	0.0	0.0	37.5	0.0
Raven® 1000	0.0	0.0	0.0	35.0
DEE FO® PI-35	1.0	1.0	1.0	1.0
Joncryl HPD 196	28.6	26.8	26.8	24.9
Water	<u>28.6</u>	<u>34.7</u>	<u>34.7</u>	<u>39.1</u>
TOTAL	100.0	100.0	100.0	100.0

Physical Characteristics

Pigment:Binder ratio	4:1	4:1	4:1	4:1
Initial Viscosity, cps*	120	900	380	65
One Week Viscosity, cps* (at room temp.)	100	1,520	760	60

**Brookfield LVF #3 spindle, 30 rpm, 25°C.*

Mixing Procedures:

1. Pre-blend batch to uniformity using high speed dispersing equipment.
2. Feed blend into a small media mill.
3. Increase speed and disperse to required fineness of grind.

SUPPLIER INFORMATION:

Product

Joncryl® HPD 196*
SUNFAST® Blue 15:3*
SUNBRITE® Yellow 14*
CDR® 57-DT688*
Raven® 1000*
DEE FO® PI-35*

Description

Colloidal Solution
Phthalocyanine Blue #249-1282
Diarylide Yellow AAOT #274-0686
Lithol Rubine Red 57:1
Carbon Black
Antifoam

Supplier

BASF Corporation
Sun Chemical Corporation
Sun Chemical Corporation
Flint Group
Columbian Chemicals Company
Münzing Chemie GmbH

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