

## *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 <sup>3</sup>	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
<b>Joncryl HPD 196</b>	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<sup>®</sup> HPD 196\***  
SUNFAST<sup>®</sup> Blue 15:3\*  
SUNBRITE<sup>®</sup> Yellow 14\*  
CDR<sup>®</sup> 57-DT688\*  
Raven<sup>®</sup> 1000\*  
DEE FO<sup>®</sup> 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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**U.S. and Canada**

BASF Corporation  
Resins  
1609 Biddle Avenue  
Wyandotte, Michigan 48192  
Phone: 1-800-231-7868  
Fax: 1-800-437-3266  
americas@basf.com

**Mexico**

BASF Mexicana, S.A. de C.V.  
Av. Insurgentes Sur # 975  
Col. Ciudad de los Deportes  
C.P. 03710  
Mexico, D.F.  
Phone : (52-55) 53-25-27-87  
(52-55) 53-25-26-87  
Fax: (52-55) 56-11-48-97