Joncryl® OH 8710

Product Description ***Waterborne* Acrylic polyol dispersion for high performance polyurethane coatings**

Key Features & Benefits

- ***Broad compatibility to multiple polyisocyanate types (hydrophobic and hydrophilically modified)***
- ***Acid and base resistance***
- ***High gloss capable***
- ***Good weathering resistance***

Chemical Composition **OH-functional acrylic dispersion**

Properties

Typical Properties

Appearance		milky white emulsion
Non-volatile content	%	45.5-46.5
Hydroxyl number of solids	mg KOH/g	~ 125
Equivalent weight as supplied	g/eq	976
Equivalent weight of solids	g/eq	449
MFFT	°C	~44
pH		7-8.5
Viscosity at 25 °C	cPs	<200

* These typical values should not be interpreted as specifications.

Applications

Joncryl OH 8710 is an acrylic polyol for waterborne 2-component polyurethane coatings. It is used primarily in combination with polyisocyanates such as Basonat® HI grade aliphatic polyisocyanates or Basonat HW grade dispersible polyisocyanates.

Joncryl OH 8710 is recommended for the following applications:

- Commercial vehicle coatings
- Automotive refinish coatings
- Industrial and maintenance topcoats

Formulation Guidelines

Dispersing Agents
Gloss and anti-corrosion performance depend, in part, on the dispersing agent used in the coating formula. Recommended dispersant is a universal waterborne dispersant, Dispex® Ultra PX 4290.

Defoamers
For high gloss, effective and partially compatible silicone defoamers are suggested. Defoamers such as FoamStar® ST 2438, FoamStar ST 2454. For automotive coatings where silicone based defoamers are not used, a defoamer such as FoamStar ST 2400 is effective.

Rheology Modifiers
A rheology modifier is recommended for spray control and anti-settling. Some screening evaluations may be required depending on formulation viscosity. Low shear associative thickeners like Rheovis® PU 1192 are suitable. The amount of amine added to the formulation may effect viscosity. Always optimize the pH with the thickener dosage.

pH Adjustment
If pH adjustment is needed in a formulation, always use tertiary amines such as dimethyl ethanolamine or triethanolamine. Do not use ammonia.

Solvent Selection
For VOC compliance as low as 2.1 lbs/gal, cosolvent choice is broad. Suggested cosolvents for highest gloss are propylene glycol butoxy ether, diethylene glycol butoxy ether. Their evaporation rate allows for no diminishing of performance at standard waterborne isocyanate indexing of 1.5:1 NCO to OH. Standard glycol acetates may also be used to control formulation viscosity of Part B or Part A made with Joncry OH 8710 and can be used to tune dry speed.

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 OH 8710.

Storage

Please refer to the “Handling and Storage of polymer dispersions” brochure.

Important

Responsible Care®
Good Chemistry at Work

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BASF Corporation
Dispersions and Resins
11501 Steele Creek Road
Charlotte, North Carolina 28273
Phone: (800) 251 – 0612
Email: CustCare-Charlotte@basf.com
www.basf.us/dpsolutions