

Joncryl[®] xDTM-B

Product Description Acrylic polyol for VOC compliant direct-to-metal applications

Key Features & Benefits

- *Excellent dry and wet adhesion to multiple metal substrates*
- *Excellent pot life*
- *Good corrosion protection*
- *High solids for low VOC capable formulation*

Chemical Composition Modified acrylic polyol in n-butyl acetate solvent

Properties

Typical Properties

Appearance		clear liquid
Non-volatile content	%	69-71
Hydroxyl number of solids	mg KOH/g	~ 140
Equivalent weight as supplied	g/eq	552
Equivalent weight of solids	g/eq	400
Glass transition temperature (T _g)	°C	26
Viscosity at 23 °C	cP	2000-6000
Solvent	n-butyl acetate	

These typical values should not be interpreted as specifications.

Applications

Joncryl xDTM-B is an acrylic polyol for solventborne DTM 2-component polyurethane coatings. It is used primarily in combination with Basonat[®] HI grade aliphatic polyisocyanates in ambient- or forced-dried coatings.

Joncryl xDTM is recommended for the following applications:

- DTM industrial coatings
- Commercial vehicle coatings
- Automotive refinish primer/surfacers
- Industrial primers

Formulation Guidelines

Dispersing Agents

Direct-to-metal adhesion and corrosion performance depend, in part, on the dispersing agent used in the coating formula. Best all-around results have been found using Efka[®] PX 4751 to disperse titanium dioxide and anti-corrosive pigments.

Defoamers

Defoamers may not be required during processing. However, Efka PB 2010 can be utilized if necessary. This defoamer has been found to be effective in the pigment grind and may also reduce field rust in salt spray exposure.

Rheology Modifiers

A rheology modifier is recommended for anti-settling. Some screening evaluations may be required depending on formulation viscosity.

Anti-Corrosive Pigments

Adhesion and corrosion performance depend, in part, on the anti-corrosive pigment used in the coating formula. Halox® SW-111 has been found to be a well-rounded anti-corrosive pigment in performance evaluation.

Solvent Selection

For VOC compliance as low as 2.1 lbs/gal, exempt solvents are required. Recommended solvents include tert-butyl acetate, acetone, para-chlorobenzenetri-fluoride (PCBTF), methyl acetate, and dimethylcarbonate. Non-exempted solvents can be used to formulate for VOC requirements above 2.1 lbs/gal. Selection should be chosen based on viscosity, application, and VOC requirements.

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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, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Joncryl xDTM-B.

Storage

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

Important

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