

# Joncryl® PRO 1532 (Joncryl® 1532)

<b>General</b>	Joncryl® PRO 1532 is an acrylic emulsion for maintenance and industrial coating applications.
<b>Key features &amp; benefits</b>	<div>excellent adhesion to a variety of substrates</div> <div>humidity resistance</div> <div>good corrosion resistance</div>
<b>Chemical nature</b>	acrylic emulsion

## Properties

<b>Appearance</b>	Milky white liquid
<b>Typical characteristics</b> <i>(should not be interpreted as specifications)</i>	<div>non-volatile at 145 °C (2g, 60 minutes) 50% ~ 52%</div> <div>pH at 25°C 7.2 ~ 8.2</div> <div>viscosity at 25°C (Brookfield #2LV, 30 rpm, 30 seconds) 100 - 700 cps</div> <div>density at 20 °C 1.06 g/mL</div> <div>Tg 14°C</div> <div>freeze/thaw stable yes</div>

## Application

Joncryl® PRO 1532 is an acrylic emulsion designed to provide adhesion to a variety of substrates, humidity resistance, water resistance, and corrosion resistance. This emulsion has utility in primer/topcoat and direct-to-metal applications. Joncryl® PRO 1532 also provides excellent tannin and stain blocking properties in topcoat applications.

Joncryl® PRO 1532 is recommended in applications such as general metal coating applications, wood coatings for flooring, furniture, or millwork applications, plastic component coating applications, concrete coating applications for both interior and exterior use.

## Formulation guidelines

### Coalescence

Joncryl® PRO 1532 is a room temperature film former and can be formulated without added coalescing solvents. This allows the formulation of coatings approaching zero VOC. However, performance significantly improves as the co-solvent level is increased. A minimum of 10% on resin solids of most co-solvents is recommended, and 15 – 20% on resin solids will generally give optimum properties. A wide range of solvents including HAPS-free solvents can be used with Joncryl® PRO 1532.

Blends of Ethylene glycol monobutyl ether<sup>1</sup> and Diethylene glycol monobutyl ether<sup>1</sup> have been found to provide excellent performance, while Diethylene glycol methyl ether<sup>1</sup> has been found to provide good early water spot resistance. Texanol<sup>2</sup> has been found to be useful for film formation under severe conditions, such as 4° C and 90% humidity.

### Dispersion Characteristics

Joncryl® PRO 1532 is shear stable and can be used as a grind vehicle if great care to temperature development and dispersion time is given. Using Joncryl® PRO 1532 in the grind however is not normally recommended. Long dispersion times or high viscosity grind bases will generate heat, which causes the system to lose amine and gelation can occur. If dispersion in Joncryl® PRO 1532 is desired, a slower amine such as DMEA can be added to compensate for amine lost during the dispersion phase. Normally a 50% solution in water will stabilize the system sufficiently; however, good manufacturing practice will still be important.

### Pigment Selection

Inhibitive pigment selection is also important for good corrosion resistance and long term package stability. Halox<sup>3</sup> SW-111 has been found compatible in most formulations. Inhibitive pigments such as Halox<sup>3</sup> SZP-391, Butrol<sup>4</sup> 22, and Busan<sup>4</sup> 11-M1 can be used with proper formulation technique. It is important to add inhibitive pigments before other pigments to avoid problems during the dispersion phase. Inhibitive pigments such as Nalzin<sup>5</sup> 2, Heucophos<sup>6</sup> ZMP, Heucophos<sup>6</sup> XPO and Heucophos<sup>6</sup> ZPA have not exhibited compatibility with Joncryl® PRO 1532. Extender have not been found to be problematic and standard formulating practices can be followed.

<sup>1</sup>Trademark of The Dow Chemical Company.

<sup>2</sup>Registered trademark of Eastman Chemical Company.

<sup>3</sup>Trademark of Israel Chemicals Limited.

<sup>4</sup>Registered trademark of Buckman Laboratories, Inc.

<sup>5</sup>Trademark of Elementis specialties.

<sup>6</sup>Registered trademark of Heubach GmbH.

## Storage

The product should be kept more than 0°C with sealed package. Must prevent from frost in a long term.

For further detailed application information please contact our Technical Support Department.

### Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

### Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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