

Joncryl[®] PRO 1532



general

a rheology controlled acrylic emulsion polymer for metal coatings that provides excellent adhesion, humidity resistance, early water resistance and corrosion resistance

key features & benefits

- excellent adhesion to a variety of substrates
- good corrosion resistance properties
- early water resistance

chemical nature

acrylic emulsion

Properties

appearance

semi-translucent emulsion

typical characteristics

(should not be interpreted as specifications)

solids by weight	51%
viscosity at 25 °C (Brookfield)	250 mPa.s
density (as supplied) at 25°C	1.06 kg/m ³
pH	7.8
acid value (solids)	27 mg KOH/g
glass transition temperature Tg (DSC)	14 °C
minimum film forming temperature	<20 °C
freeze/thaw stable	yes

Application

Joncryl[®] PRO 1532 has found utility in primer/topcoat and direct-to-metal (DTM) applications for maintenance and industrial coatings, because of its excellent balances of appearance and performance related properties.

Performance

Joncryl® PRO 1532 has excellent adhesion to a variety of substrates including, plastics (like PPO, ABS, PC, PS), galvanized steel and previously painted surfaces. It develops early water spot resistance, excellent blister resistance, adhesion, and recovery of clarity when exposed in the humidity cabinet. Joncryl® PRO 1532 as primer or in a direct-to-metal applications demonstrates excellent corrosion resistance properties as measured by Prohesion testing and by actual exposure at sea side locations.

Formulation guidelines

Coalescing

Joncryl® PRO 1532 is a room temperature film former and can be formulated without coalescing solvents. This allows the formulation of coatings approaching zero VOC. However, performance dramatically improves with a coalescing solvent. A minimum of 10% (calculated on solid resin) of most coalescing solvents is recommended. Butyl glycol and Solvenon® PnB have been found to provide excellent performance. Texanol® has been found to be useful for film formation under severe conditions, such as 5°C and 90% relative humidity.

Pigment selection

Anti-corrosion pigment selection is important for good corrosion resistance and long term package stability. In order to obtain good stability of the liquid paint that contains anti-corrosion pigments, neutralization with an amine (e.g. DMEA) is recommended. Insufficient neutralization of the free carboxylic groups present in Joncryl® PRO 1532 could lead to strong viscosity increase of the liquid paint. Joncryl® PRO 1532 shows good compatibility with many titanium dioxide grades. For highest gloss levels results have been obtained with Ti-Pure R706, supplied by Dupont.

Dispersion characteristics

Joncryl® PRO 1532 is shear stable and can be used as a grind vehicle if care taken for temperature development (keep below 60°C) and dispersion time.

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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