

JONCRYL[®] 1532

Key features and benefits

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

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

General information

Typical physical characteristics (not to be considered specifications)

appearance	semi translucent emulsion
solids by weight	51%
solids by volume	49%
viscosity at 25°C (Brookfield)	250 mPa.s
specific mass as supplied	1,032 kg/m ³
specific mass solids	1,068 kg/m ³
pH	7.8
glass transition temperature T _g (DSC)	14 °C (57 °F)
minimum film-forming temperature	<20 °C (<68 °F)
acid value (solids)	27
freeze/thaw-stable	yes

Applications

JONCRYL® 1532 has found utility in primer/topcoat and Direct-to-Metal (DTM) applications for maintenance and industrial coatings, because of its excellent balance of appearance and performance related properties.

Performance

JONCRYL® 1532 has excellent adhesion to a variety of substrates including, plastics like PPO, ABS, PC, PS etc., galvanized steel and previously painted surfaces. It develops early waterspot resistance, excellent blister resistance, adhesion, and recovery of clarity when exposed on the humidity cabinet.

JONCRYL® 1532 demonstrates excellent corrosion resistance properties as measured by Prohesion testing and by actual outdoor exposures in seaside locations.

JONCRYL® 1532 demonstrates excellent metal protection characteristics with a primer or in Direct-to-Metal applications.

Formulation guidelines

Coalescing

JONCRYL® 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.

Butylglycol and Dowanol¹ 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

Inhibitive 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-corrosive pigments, neutralization with an amine (e.g. DMEA) is recommended. (Unsufficient neutralization of the free carboxylic groups present in JONCRYL® 1532 could lead to strong viscosity increase of the liquid paint.) JONCRYL® 1532 shows good compatibility with many titanium dioxide grades. For highest gloss levels best results have been obtained with Ti-Pure² R706.

Dispersion characteristics

JONCRYL® 1532 is shear stable and can be used as a grind vehicle if care to temperature development (keep temperature <60°C) and dispersion time is given.

Defoamer selections

The selection of defoamers can be formulation dependent. What works well in one type of formulation may not work at all in a different but similar formulation. BYK³ 024 has been found to give good overall utility in most formulations. BYK³ 020, 022 in the grind and BYK³ 024 in the let down may prove useful in more difficult formulations.

Safety

When handling these products, advice and information given in the safety data sheet must be complied with. Further, protective and workplace hygiene measures adequate for handling chemicals must be observed.

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. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

¹ registered trademark of Dow Corning

² registered trademark of Dupont Specialty Chemicals

³ registered trademark of BYK Chemie

BASF Resins B.V.
P. O. Box
8440 AJ Heerenveen, The Netherlands
Phone +31 513 619 619
Fax +31 513 619 600
resins@basf.com
www.basf.com/resins