

Joncryl® OH 8314

General

Joncryl® OH 8314 is a unique hydroxyl functional, water-based polymer for 2K high-performance industrial direct-to-metal and multi-coat applications.

Key features & benefits

pot life with end indication via viscosity increase

low VOC capability

excellent anti-corrosion

good adhesion on various substrates

good hardness development

excellent chemical resistance

Chemical nature

hydroxyl acrylic dispersion

Properties

Appearance

milky white liquid

Typical characteristics

(should not be interpreted as specifications)

non-volatile at 145°C (2g, 60 minutes)	43%~45%
pH value at 25°C	7.8~8.3
viscosity at 25°C	100~700 mPa·s
hydroxyl value	70 mg KOH/g solids
density at 20°C	1.05 g/mL
MFFT	42°C
freeze-thaw stable	Not stable

Application

Joncryl® OH 8314 is an innovative hydroxyl functional acrylic dispersion for two-component polyurethane coatings. Joncryl® OH 8314 is designed with an end indication of pot life comparable to solvent-based systems. Coatings formulated with Joncryl® OH 8314 exhibit durability and feature a low viscosity, low isocyanate demand with excellent flow and leveling. Unique processing provides a clean water phase, which results in low foaming and reduced water sensitivity, an advantage for various applications.

Joncryl® OH 8314 is recommended in applications such as interior/exterior industrial and institutional maintenance, interior/exterior general metal industrial coatings, direct-to-metal protective coatings, transportation applications, concrete and wood coatings.

Formulation guidelines

Coalescent

Propylene glycol monomethyl ether acetate, diethylene glycol monoethyl ether acetate, ethylene glycol n-butyl ether, propylene glycol n-butyl ether, dipropylene glycol n-butyl ether are compatible with Joncryl® OH 8314, Coalescent choice will influence properties such as water resistance, corrosion resistance and gloss, could influence pot life. It is recommended to add co-solvent to the isocyanates as opposed to the resin for better package stability.

Dispersant

Joncryl® OH 8314 is sensitive to surfactant and dispersant as they change the water phase severely, so formulators need to screen the proper dispersant for pigmented system, in order to achieve the end indication of pot life.

Storage

This product has to be stored in tightly sealed original packaging at temperatures above 0°C. This product must be protected from frost for a long time.

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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BASF East Asia Regional Headquarters Ltd.

45th Floor, Jardine House, No. 1 Connaught Place, Central, Hong Kong