

Joncryl® U 4190

General

Joncryl® U 4190 is an NMP-free aliphatic polyurethane dispersion

Key features & benefits

excellent abrasion resistance
outstanding film toughness
good chemical resistance
board adhesion to multiple substrates
NMP free, ecological

Chemical nature

polyurethane dispersion

Properties

Appearance

translucent liquid

Typical characteristics

(should not be interpreted as specifications)

Non-volatile content (2g, 60 min at 145°C)	36.5 %
pH value at 25°C	8.5
viscosity at 25°C (Brookfield)	80 mPa·s
specific gravity	1.03 g/mL
MFFT	23°C
freeze-thaw stable (-5°C)	Not stable

Application

Joncryl® U 4190 is an aliphatic polyurethane dispersion in water. It provides a good balance of film hardness, flexibility and toughness, along with excellent adhesion and abrasion resistance. Joncryl® U 4190 is compatible with a wide range of acrylic emulsions and can be used as a blend vehicle.

Coatings formulated with Joncryl® U 4190 exhibit excellent adhesion to wood, metal, concrete and a variety of plastic substrates, including ABS and polycarbonate.

Formulation Guidelines

Coalescent

Dipropylene glycol n-butyl ether, ethylene glycol n-butyl ether, propylene glycol n-butyl ether, dipropylene glycol methyl ether and propylene glycol are compatible with Joncryl® U 4190, can be used as coalescent. Ammonia is recommended for pH control.

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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