

# UCECOAT® 7674

Acrylated Polyurethane Dispersion

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## INTRODUCTION

UCECOAT 7674 is an acrylated polyurethane dispersion in water designed for waterborne UV/EB curable coatings. UCECOAT 7674 is anionic in nature, making it compatible with water without any external emulsifier. Due to the presence of these ionic groups, it is not stable under acidic conditions. UCECOAT 7674 contains no co-solvent. UCECOAT 7674 exhibits outstanding wetting of wood surfaces, imparting warmth and richness to the appearance of the wood. UCECOAT 7674 provides hardness in the polymerized coating along with good stain and chemical resistance.

## PERFORMANCE HIGHLIGHTS

UCECOAT 7674 is characterized by:

- Milky appearance
- Very low viscosity
- Tacky after water evaporation and before UV curing. Tacky material can be re-emulsified and reused after filtration
- Very good compatibility, easy formulation

UV/EB cured products based on UCECOAT 7674 are characterized by the following performance properties:

- Excellent adhesion on wood
- Excellent flexibility
- Outstanding wetting of wood surfaces
- High hardness
- Very low yellowing

The actual properties of UV/EB cured products also depend on the selection of other formulation components such as reactive diluents, additives, and photoinitiators.

## SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing UCECOAT 7674 are typically applied by spray or curtain coating and by roller and T-bar in field applied applications. Additional methods may also be used.

UCECOAT 7674 is recommended for:

- Wood primers
- Clear and pigmented wood coatings
- Top coat for wood furniture and doors
- Field applied clear coatings on wood, concrete, VCT, and resilient flooring

## SPECIFICATIONS

	VALUES
Appearance	Emulsion
Non-volatile matter, %	38.0-42.0
pH	6.4-7.8
Particle size, nm, max.	150
Viscosity, 25°C, cP, max.	200

## TYPICAL PROPERTIES

Density, g/ml at 20°C	1.05
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## PRECAUTIONS

Before using UCECOAT 7674, see the Safety Data Sheet for information on the identified hazards of the material and the recommended personal protective equipment and procedures.

## STORAGE AND HANDLING

Protect the product from freezing. Care should be taken not to expose the product to high temperature conditions or direct sunlight. Containers should be kept closed and away from materials that react with water. Bacteriological contamination can occur if the product is stored for an extended period in a container which is not sufficiently sealed or clean. Storage and handling should be in stainless steel, amber glass, or amber polyethylene containers. After prolonged storage product can settle and may require agitation to re-disperse. This product is stable under normal conditions of handling and storage. Do not store this material under an oxygen free atmosphere. Wash thoroughly after handling. Use with adequate ventilation.

See the SDS for the recommended storage temperature range for UCECOAT 7674.

Please refer to the allnex Guide to Safety and Handling of Acrylate Oligomers and Monomers for additional information on the safe handling of acrylates.

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