

UCECOAT® 7655

Acrylated Polyurethane Dispersion

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INTRODUCTION

UCECOAT 7655 is a radiation curable polyurethane dispersion which is tack-free before cure and after water evaporation. It has been developed for high end wooden furniture top-coats, both transparent and pigmented, but can also be used for other applications and substrates, such as field applied UV curable coatings for wood, concrete, VCT (vinyl composition tile), and resilient floors. This polyurethane dispersion is very reactive and exhibits very good scratch resistance. Due to the low viscosity, it can be applied by spray or curtain coater.

PERFORMANCE HIGHLIGHTS

UCECOAT 7655 is characterized by:

- Translucent to white appearance
- Low viscosity
- Tack-free after water evaporation and before UV curing
- Low VOC

UV/EB cured formulations based on UCECOAT 7655 are characterized by the following performance properties:

- Very high reactivity in clear and pigmented systems
- Very good hardness and high scratch resistance
- Excellent chemical and stain resistance
- Optimized colloidal stability
- Good compatibility and easy to formulate.

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

SUGGESTED APPLICATIONS

Formulated UV curable products containing UCECOAT 7655 are typically applied by spray, curtain coating and roll-to-roll coating methods, as well as by roller and T-bar in field applied applications.

UCECOAT 7655 is recommended for use in:

- Pigmented coatings for furniture applications
- Clear topcoat for wood furniture applications
- Coating on melamine paper foils
- Field applied clear coatings on wood, concrete, VCT, and resilient flooring

SPECIFICATIONS

	VALUES
Appearance	White
Non-Volatile Matter, %	33.5-36.5
pH	7.0-8.5
Particle size, nm, max.	150
Viscosity at 25°C, cP/mPa·s, max.	200

TYPICAL PROPERTIES

Density, g/ml at 25°C	1.05
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PRECAUTIONS

Before using UCECOAT 7655, 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 7655.

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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