

UCECOAT® 7699

Acrylated Polyurethane Dispersion

INTRODUCTION

UCECOAT 7699 is a high performance acrylated polyurethane dispersion specifically developed for energy curable pigmented top-coats on wood furniture. It is also suited for clear finishes on wood along with other substrates and applications, such as field applied UV curable coatings for wood, concrete, VCT (vinyl composition tile), and resilient floors. UCECOAT 7699 demonstrates high reactivity, including in thick pigmented coatings, and cured coatings exhibit outstanding scratch and stain resistance.

PERFORMANCE HIGHLIGHTS

UCECOAT 7699 is characterized by:

- Translucent to white appearance
- Low viscosity
- Tack-free after water evaporation
- Very high reactivity both in both clear and pigmented systems
- Excellent stability
- Good compatibility and easy to formulate

UV/EB cured products based on UCECOAT 7699 are characterized by the following performance properties:

- Outstanding hardness and scratch resistance
- Excellent stain resistance

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 7699 may be readily applied by spray- and curtain coating methods due to its low viscosity. It may also be applied by roller and T-bar in field applied applications. For application by roll coater, a viscosity thickener should be added. UCECOAT 7699 is recommended for use in:

- Pigmented coatings on furniture
- Clear topcoats for wood furniture
- Hard coatings on melamine paper foils and plastic substrates
- Field applied clear coatings on wood, concrete, VCT, and resilient flooring

TYPICAL PROPERTIES

VALUE

Appearance	translucent to white liquid
Density, g/ml at 25°C	~1.0
MFFT, °C	6
Particle size, nm	<150
Persoz hardness before UV curing, sec.	135
Persoz hardness after UV curing, sec.	360
pH	7-8.5
Solids content, % by weight	~35
Viscosity, 25°C, cP/mPa-s	<200

STORAGE AND HANDLING

Before using UCECOAT 7699, consult the **Safety Data Sheet** for additional information on hazards, handling procedures, and recommended protective equipment.

The recommended storage temperature range for UCECOAT 7699 is $\geq 4^{\circ}\text{C}$ (39°F) to $\leq 40^{\circ}\text{C}$ (104°F). 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, amber polyethylene or baked phenolic lined containers. Do not store this material under an oxygen free atmosphere. Wash thoroughly after handling. Use with adequate ventilation.

PRECAUTIONS

Avoid contact with eyes, skin and clothing. Direct contact with this material may cause minimal eye and skin irritation. Repeated or prolonged dermal contact may cause allergic skin reactions. Overexposure to vapors can cause irritation to the eyes, nose and respiratory tract.

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

• Worldwide Contact Info: www.allnex.com •

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