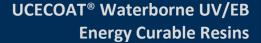
TECHNICAL DATASHEET

# **UCECOAT® 7734**

Tin-free<sup>(1)</sup> Polyurethane Acrylate Dispersion

March 2017





### INTRODUCTION

UCECOAT 7734 is a UV curable polyurethane acrylate dispersion in water characterized by its outstanding stain resistance in both clear and white pigmented coatings, while maintaining very good flexibility.

## PERFORMANCE HIGHLIGHTS

UCECOAT 7734 is characterized by:

- Translucent to white appearance
- · Low viscosity
- · Excellent colloidal stability
- · Good compatibility and easy to formulate

UV/EB energy cured formulations based on UCECOAT 7734 are characterized by the following performance properties:

- · Tack-free behavior after physical drying before UV curing
- · Outstanding hardness and scratch resistance
- · Excellent stain and solvent 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/EB energy curable products containing UCECOAT 7734 may be applied by spray, direct or reverse roll, and curtain application methods, as well as by roller and T-bar in field applied applications. UCECOAT 7734 is recommended for use in:

- White pigmented and clear coatings on wood
- UV protective clear coatings for PVC flooring

SPECIFICATIONS	VALUE
Appearance	White
Non-volatile matter, %	37.0-39.0
рН	7.0-8.5
Particle size, nm, max.	150
Viscosity at 25°C, cP/mPa·s, max.	500

# **TYPICAL PROPERTIES**

Density, g/ml, 25°C	1.05
MFFT <sup>(2)</sup> , °C	6

## **TYPICAL CURED PROPERTIES**

Elongation, %	2
Persoz hardness, seconds	240-250
Tg, °C	113

## **PRECAUTIONS**

Before using UCECOAT 7734, 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 7734.

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

- (1) Does not contain intentionally added organic tin compounds
- (2) Minimum film formation temperature

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