

# 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
pH	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
T <sub>g</sub> , °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

[www.allnex.com](http://www.allnex.com)

Disclaimer: allnex Group companies ("allnex") decline any liability with respect to the use made by anyone of the information contained herein. The information contained herein represents allnex's best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, regarding the accuracy, the completeness or relevance of the data set out herein). Nothing contained herein shall be construed as conferring any license or right under any patent or other intellectual property rights of allnex or of any third party. The information relating to the products is given for information purposes only. No guarantee or warranty is provided that the product and/or information is adapted for any specific use, performance or result and that product and/or information do not infringe any allnex and/or third party intellectual property rights. The user should perform his/her own tests to determine the suitability for a particular purpose. The final choice of use of a product and/or information as well as the investigation of any possible violation of intellectual property rights of allnex and/or third parties remains the sole responsibility of the user.

Notice: Trademarks indicated with ®, ™ or \* as well as the allnex name and logo are registered, unregistered or pending trademarks of Allnex IP s.à.r.l. or its directly or indirectly affiliated allnex Group companies.