

UCECOAT[®] 7689 Acrylated Polyurethane Dispersion

INTRODUCTION

UCECOAT 7689 is an energy curable polyurethane dispersion which is tack-free after water evaporation. It has been developed for wood joinery topcoats (outdoor), but can also be used for other applications. Because of its non-irritant nature and low viscosity, it can be applied safely by spray coating and curtain coating.

PERFORMANCE HIGHLIGHTS

UCECOAT 7689 is characterized by:

- Translucent appearance
- Low viscosity
- Tack-free after water evaporation

UV/EB cured products based on UCECOAT 7689 are characterized by the following performance properties:

- Excellent outdoor resistance
- High flexibility
- Good chemical 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 7689 may be applied by spray- and curtain coating methods. UCECOAT 7689 is recommended as binder in topcoats for wood joinery already coated with a conventional basecoat (for outdoor application).

TYPICAL PROPERTIES

Appearance	translucent liquid
Density, g/ml at 25°C	~1.0
Particle size, nm	<100
pH	7-8.5
Solid content, % by weight	~35
Viscosity at 25°C, cP	<200

STORAGE AND HANDLING

Before using UCECOAT 7689, consult the **Material Safety Data Sheet** for additional information on hazards, handling procedures, and recommended protective equipment.

The recommended storage temperature range for UCECOAT 7689 is $\geq 4^{\circ}\text{C}$ (39°F) to $\leq 40^{\circ}\text{C}$ (104°F). Protect the product from freezing. Avoid conditions that may expose the material to high temperatures. Protect from direct sunlight. Use with adequate ventilation. Keep container closed. After prolonged storage product can settle and may require agitation to re-disperse. This product is stable under normal conditions of handling and storage.

PRECAUTIONS

Avoid contact with skin and eyes and breathing vapors. Direct contact with this material may cause minimal eye and skin irritation. Wash thoroughly after handling.

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