

# UCECOAT® 7710

## Acrylated Polyurethane Dispersion

### INTRODUCTION

UCECOAT 7710 is a solvent free, energy curable polyurethane dispersion specifically developed for high gloss applications on wood and plastics. It exhibits high hardness and scratch resistance.

UCECOAT 7710 is not physically drying before UV curing.

### PERFORMANCE HIGHLIGHTS

UCECOAT 7710 is characterized by:

- Translucent bluish to white emulsion
- Low viscosity
- Good stability. A very slight re-dispersible deposit may occur.

UV/EB energy cured formulations based on UCECOAT 7710 are characterized by the following performance properties:

- High gloss
- Excellent mirror effect without polishing
- Good stain and solvent resistance
- High hardness & scratch resistance
- Tacky before curing

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

### SUGGESTED APPLICATIONS

Formulated UV/EB energy curable products containing UCECOAT 7710 may be applied by spray, roller and curtain application methods. It may also be applied by roller and T-bar in field applied applications. UCECOAT 7710 is recommended for use in:

- Water based UV wood top coats
- Water based UV protective coatings for plastics
- Water based, field applied clear coatings on wood, concrete, VCT, and resilient flooring

### TYPICAL PROPERTIES

|   | VALUE   |
|---|---------|
| PersoZ pendulum hardness <sup>(1)</sup> , seconds | 336     |
| pH  | 6.0-7.5 |
| Solids content, % by weight                       | 45      |
| Viscosity, 25°C, cP/mPa·s                         | ~150    |

### MIRROR EFFECT OF UCECOAT 7710



(1) EB cured, no photoinitiator.

## STORAGE AND HANDLING

Before using UCECOAT 7710, consult the **Safety Data Sheet** for additional information on hazards, handling procedures, and recommended protective equipment.

The recommended storage temperature range for UCECOAT 7710 is  $\geq 4^{\circ}\text{C}$  ( $39^{\circ}\text{F}$ ) to  $\leq 40^{\circ}\text{C}$  ( $104^{\circ}\text{F}$ ). 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 **Guide to Safety, Health and Handling of Acrylate Oligomers and Monomers** for additional information on the safe handling of acrylates.

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