

ACRYLATED POLYURETHANE DISPERSION

INTRODUCTION

UCECOAT® 7630 is an energy curable polyurethane dispersion which is tack-free after water evaporation. It has been developed for wood coatings but can also be used for other applications, such as field applied UV curable coatings for wood, concrete, VCT (vinyl composition tile), and resilient floors. Because of its non-irritant nature and low viscosity, it can be applied safely by spray coating and curtain coating.

PERFORMANCE HIGHLIGHTS

UCECOAT® 7630 is characterized by:

- Translucent to white appearance.
- Low viscosity.
- Tack-free after water evaporation and before UV curing.

UV/EB cured formulations based on UCECOAT® 7630 are characterized by the following:

- Very high reactivity both in transparent and pigmented systems.
- Very good hardness and scratch resistance.
- Excellent stain resistance.
- Optimized stability.
- Good compatibility and easy to formulate.

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

SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing UCECOAT® 7630 are typically applied by spray or curtain coating and by roller and T-bar in field applied applications. Additional methods may also be used.

UCECOAT® 7630 is recommended for use in:

- Pigmented coatings for furniture applications.
- Clear topcoat for wood furniture applications.
- Coatings on melamine paper foils.

SPECIFICATIONS

Appearance	translucent liquid
Non-volatile matter, %	40 - 42
pH	7.0 - 8.5
Particle size, nm	max. 150
Viscosity, 25°C, mPa.s	max. 200

TYPICAL PROPERTIES

Density, g/cm ³ at 20°C	1.0
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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® 7630.

PRECAUTIONS

Before using UCECOAT® 7630, see the Safety Data Sheet for information on the identified hazards of the material and the recommended personal protective equipment and procedures.