

## INTRODUCTION

UCECOAT® 7733 is a UV-curable polyurethane dispersion characterized by its outstanding stain resistances both in clear and white pigmented coatings, while still giving flexibility.

## PERFORMANCE HIGHLIGHTS

UCECOAT® 7733 is characterized by:

- Translucent to white appearance.
- Low viscosity.
- Excellent colloidal stability.
- Good compatibility and easy to formulate.
- Tack-free behavior after physical drying before UV curing.
- Outstanding hardness and scratch resistance.
- Excellent stain and solvent resistance.

The final properties of UV cured formulations also depend on the selection of the other components such as additives and photo initiators.

## SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing UCECOAT® 7733 may be applied by direct or reverse roll, spray and curtain coating methods.

UCECOAT® 7733 is recommended for use in:

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

## TYPICAL PROPERTIES

|                                     |                             |
|-------------------------------------|-----------------------------|
| Appearance                          | translucent to white liquid |
| Particle size, nm                   | < 125                       |
| MFFT, °C                            | 6                           |
| Brookfield viscosity at 25°C, mPa.s | < 200                       |
| Tg, °C                              | 113                         |
| Elongation, %                       | 2.0                         |
| Hardness Persoz                     | 240 - 250                   |

## PHYSICAL PROPERTIES

|                             |             |
|-----------------------------|-------------|
| Density, g/cm <sup>3</sup>  | approx. 1.0 |
| pH                          | 7.0 - 8.5   |
| Particle size, nm           | < 200       |
| Polymer solids, % by weight | approx. 35  |

## STORAGE AND HANDLING

Care should be taken not to expose radiation curable products to temperatures exceeding 40°C for prolonged periods or to direct sunlight. This might cause uncontrollable polymerization of the product with generation of heat. Due to the presence of water, UCECOAT® 7733 needs to be stored above freezing temperatures.

Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers. Do not store this material under an oxygen free atmosphere. This material should not be stored for more than 1 year.

## PRECAUTIONS

The following is a summary of the precautions to be taken when handling this product. Please refer to the Safety Data Sheet for further details.

The toxicological properties of this material have not been fully determined.

Appropriate precautions should be taken to avoid eye and skin contact and to avoid inhalation of the aerosols or vapours.

Consult the relevant Safety Data Sheet for appropriate handling procedures and protective equipment prior to using this or any other material referred to in this bulletin.

See Safety Data Sheet for emergency and first aid procedures.

## STATUTORY LABELING

Please refer to Safety Data Sheet.