# UCECOAT® 7177

Technical Datasheet

## INTRODUCTION

UCECOAT® 7177 is a aliphatic urethane acrylate in 60% water developed for wood coatings, but can also be used for other applications. UCECOAT® 7177 is radiation curable when formulated with an adapted photo initiator system.

## PERFORMANCE HIGHLIGHTS

UCECOAT® 7177 is characterized by:

- appearance translucent to blueish to white / emulsion
- very low viscosity
- a tacky coating after water evaporation and before UV curing. This tacky material is re-emulsifiable and can be reused after filtration
- very good compatibility and easy to formulate

UV/EB cured products based on UCECOAT® 7177 are characterized by the following properties:

- high flexibility and hardness
- excellent adhesion on wood
- outstanding wood wetting

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

## SUGGESTED APPLICATIONS

Formulated UV curable products containing UCECOAT® 7177 can be applied by spray and curtain coating methods.
UCECOAT® 7177 is recommended for use in:

- wood primer
- clear and pigmented wood coatings
- top coat for wood furniture and doors
- as binder in other industrial applications

## TYPICAL PHYSICAL PROPERTIES

| | |
|---|---|
| Brookfield viscosity at 25°C, mPa.s | 55 |
| Appearance | white liquid |
| Density, g/cm³ | approx. 1.05 |
| pH | 6.4 - 7.8 |
| Polymer solids, % by weight | approx. 40 |

## 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 presence of water, UCECOAT® 7177 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. Use dry air to displace material removed from the container.
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. Products of this type can be expected to be eye and skin irritant and have the potential to cause sensitization or other allergic responses. 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



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