

Ucecoat™ 7660

Technical Data Sheet

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Radiation curable aliphatic polyurethane dispersion

INTRODUCTION

Ucecoat 7660 is a co-solvent free and Xi free aliphatic polyurethane dispersion with 40% solid content, particularly suitable for spray coatings on wooden furniture.

It exhibits outstanding wood wetting and adhesion on several wood species and can be easily applied by spray, thanks to its low viscosity.

PERFORMANCE HIGHLIGHTS

Ucecoat 7660 is characterized by :

- translucent to white aspect
- low viscosity
- a tacky behaviour after water evaporation and before UV curing, allowing re-emulsifiability and re-use after filtration
- very good compatibility and ease of formulation
- good colloidal stability
- no labelling (Xi free)

UV cured products based on Ucecoat 7660 are mostly characterized by the following performance properties :

- outstanding wood wetting ("anfeuerung")
- excellent adhesion on several wood species
- good compromise between flexibility and hardness
- good stain and mechanical resistance

The final properties of radiation-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 7660 can be easily applied by spray coating methods.

Ucecoat 7660 is recommended for use as :

- transparent base-coat with excellent wood wetting and adhesion on wooden furniture; system can then be finished with a high performance top-coat based on other Cytec UV-PUDs, such as Ucecoat 7849, Ucecoat 7571, Ucecoat 7773 or Ucecoat 7655
- sole component for both base-coats and top-coats in more economical systems

TYPICAL VALUES

Brookfield viscosity at 25 °C, MPa.s: approx. 45
Appearance: translucent to white liquid

PHYSICAL PROPERTIES

Density, g/cm³ approx. 1.05
pH: 6.4-7.8
Polymer solids, % by weight approx. 40

STARTING FORMULATION FOR MATT SPRAY COATINGS ON WOOD:

Ucecoat 7660	94 parts
Acematt TS 100	1.5 parts
Aquamatt 208	3.0 parts
Additol BCPK (photoinitiator)	1.5 parts

A thickener such as Ucecoat 8460 (up to 2%) can be used to adjust the viscosity to spray conditions

Cytec Surface Specialties S.A./N.V. Anderlechtstraat 33, B-1620, Drogenbos, Belgium

Telephone: ++32 (0)2 334 51 11

E-mail: tsd.radcure@cytec.com

Web site: www.cytec.com

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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 the destabilisation of the dispersion or the uncontrolled polymerization of the product with generation of heat.

Due to presence of water, Ucecoat 7660 needs to be stored above freezing temperatures.

The formulated product should be handled and stored 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 6 months.

PRECAUTIONS

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 also for emergency and first aid procedures.

STATUTORY LABELLING

Please refer to Safety Data Sheet.

April 2008 - Supersedes previous versions

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