TECHNICAL DATASHEET

UCECOAT®7849

Energy Curable Resins

UCECOAT® Waterborne UV/EB

RADIATION CURABLE POLYURETHANE DISPERSION

February 2017



INTRODUCTION

Ucecoat 7849 is a radiation curable polyurethane dispersion which is tack-free before cure and after water evaporation. It was developed for wood coatings, but can also be used for other applications. Because of its non-irritant nature and low viscosity, it and can be applied safely by spray coating and curtain coating.

PERFORMANCE HIGHLIGHTS

Ucecoat 7849 is characterized by:

- ✓ translucent appearance
- √ low viscosity
- ✓ tack free-property before cure, after water evaporation

UV/EB cured products based on Ucecoat 7849 are characterized by the following performance properties :

- √ high flexibility
- ✓ high hardness

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

SUGGESTED APPLICATIONS

Formulated UV curable products containing Ucecoat 7849 may be applied by spray- and curtain coating methods.

Ucecoat 7849 is recommended for use in : wood coatings

TYPICAL VALUES

Brookfield viscosity at 25°C, #2; 50rpm, mPa.s max.200 Appearance translucent liquid

PHYSICAL PROPERTIES

Density, g/cm³	1.0
PH	7-8
Particle size, nm	< 100
Polymer solids, % by weight	35

SORAGE 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 7849 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 LABELLING

Please refer to Safety Data Sheet.

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