

UCECOAT® 7733 Technical Data Sheet

Xi-free (non irritant) UV-curable polyurethane dispersion

INTRODUCTION

UCECOAT®7733 is a Xi-free (non irritant) UV-curable polyurethane dispersion characterized by its outstanding stain resistances both in clear and white pigmented coatings, while still giving very good flexibility.

PERFORMANCE HIGHLIGHTS

UCECOAT® 7733 is characterized by:

- Translucent to white appearance.
- Xi-free (non irritant).
- Low viscosity.
- Excellent colloidal stability.
- Good compatibility and easy to formulate.
- Slightly tacky after physical drying before UV curing.
- Outstanding hardness and scratch resistance.
- Excellent stain and solvent resistance.

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

SUGGESTED APPLICATIONS

Formulated waterborne UV 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:

- White pigmented and clear coatings on wood
- Primer and basecoat for field applied coatings
- UV protective clear coatings for PVC flooring

TYPICAL PROPERTIES

	VALUE
Appearance	translucent - white liquid
Density at 25 °C, g/ml	1.0
Solid content, % by weight	38
Brookfield viscosity 25 °C, mPa.s	< 200
pH	7.0-8.5
Particle size, nm :	< 125
MFFT, °C :	6
Tg (cured film), °C	113
Elongation (cured film), %	2
Persoz Hardness (cured film), s	250

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 LABELLING

Please refer to Safety Data Sheet.
August 2010.

www.cytec.com

• Email: custinfo@cytec.com | Worldwide Contact Info: www.cytec.com | Toll Free: 800-652-6013 | Tel: (+1) 973-357-3193 •

Cytec Industries Inc. in its own name and on behalf of its affiliated companies (collectively, "Cytec") decline any liability with respect to the use made by anyone of the information contained herein. The information contained herein represents Cytec's best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, regarding the accuracy, the completeness or relevance of the data set out herein). Cytec is the sole owner or authorized user of the intellectual property rights relating to the information communicated. The information relating to the use of the products is given for information purposes only. No guarantee or warranty is provided that the product is adapted for any specific use. The user or purchaser should perform its own tests to determine the suitability for a particular purpose. The final choice of use of a product remains the sole responsibility of the user.

© 2010 Cytec Industries Inc. All rights reserved.

TRADEMARK NOTICE: The ® indicates a Registered Trademark in the United States and the ™ or * indicates a Trademark in the United States. The mark may also be registered, the subject of an application for registration or a trademark in other countries.