

UCECOAT[®] 6569 Aliphatic Urethane Acrylate

INTRODUCTION

UCECOAT 6569 is a water dilutable aliphatic urethane acrylate oligomer containing ~5% water. *UCECOAT 6569* can be used to formulate UV/EB curable waterborne wood coatings as well as screen printing inks and varnishes. Cured films containing *UCECOAT 6569* demonstrate good adhesion to a variety of wood types, along with good flexibility, resistance to yellowing, and resistance to water and solvents. *UCECOAT 6569* based coatings can be re-coated after curing.

PERFORMANCE HIGHLIGHTS

UCECOAT 6569 is characterized by:

- High viscosity
- Light color

UV/EB cured products based on *UCECOAT 6569* are characterized by the following performance properties:

- Good adhesion and transparency on wood
- Flexibility
- Good reactivity
- Resistance to yellowing

The actual properties of UV/EB cured products also depend on the selection of other formulation components such as reactive diluents, additives, and photoinitiators.

SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing *UCECOAT 6569* may be applied via direct or reverse roll coating and screen printing methods. *UCECOAT 6569* is recommended for:

- Adhesion primers for wood
- Waterborne screen inks and coatings

SPECIFICATIONS

Color, Gardner scale, max.
Viscosity at 60°C, cP

SMT⁽¹⁾

001-B
013-AAA

VALUES

2
4000-12000

TYPICAL PROPERTIES

Appearance
Density, g/ml at 25°C
Solid content, % by weight

Clear liquid
1.10
95

VISCOSITY REDUCTION

UCECOAT 6569 can be diluted with up to 50% by weight water for viscosity reduction. If total water content exceeds 50%, the product stability may be decreased. Viscosity reduction can also be achieved with reactive diluents such as tripropylene glycol diacrylate (TRPGDA)⁽¹⁾ or *EBECRYL[®]* 12 a low viscosity trifunctional polyether acrylate that is partially water-soluble. The product stability should be assessed when using a particular combination of reactive diluent and water.*

(1) Standard Methods of Testing available upon request.



STORAGE AND HANDLING

Before using *UCECOAT 6569*, consult the **Material Safety Data Sheet** for additional information on hazards, handling procedures, and recommended protective equipment.

The maximum recommended storage temperature for *UCECOAT 6569* is 38°C (100°F). High temperature and fire conditions can cause uncontrolled polymerization with rapid evolution of heat and pressure rise, which may result in violent rupture of the storage tanks or containers. Never store in direct sunlight or adjacent to heated compartments. Containers should be kept closed and away from oxidizing agents, acids, alkalies, peroxides, free radical initiators, photosensitizers, rust, and x-ray or ultraviolet radiation. Do not store this material under an oxygen free atmosphere. Use dry air to displace material removed from the container.

PRECAUTIONS

Avoid contact with skin and eyes and breathing vapors. Contains materials that may cause irritation to the eyes and skin. Sensitization may occur. Skin irritation may not occur immediately and contact may go unnoticed for up to 48 hours. Solvents should not be used to clean skin because of increased penetration potential. Contaminated clothing, shoes, belts and other leather goods should be removed immediately. Incinerate contaminated leather goods, including shoes. Wash contaminated clothing thoroughly before reuse.

Please refer to the Cytec **Guide to Safety and Handling** for additional information on the safe handling of acrylates.

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