

INTRODUCTION

UCECOAT® 6569 is an aliphatic urethane acrylate solution in water, containing approx. 95% acrylated products. The UCECOAT® 6569 is highly recommended as primer for wood applications. Films containing UCECOAT® 6558 and cured by ultraviolet light (UV) or electron beam (EB) exhibit a nice optical aspect on different woods. Stability problems can occur if more water is added. Therefore, we recommend to use the EBECRYL® 12 or EBECRYL® 13 produced by allnex.

PERFORMANCE HIGHLIGHTS

UCECOAT® 6569 is characterized by:

- low colour
- high viscosity

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

- excellent wood wetting
- excellent adhesion on wood
- high flexibility
- non-yellowing

The properties of UV/EB 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/EB curable products containing UCECOAT® 6569 may be applied by screen and direct or reverse roll.

UCECOAT® 6569 is recommended for use in:

- screen inks
- waterbased applications
- adhesion primer on wood

TYPICAL PHYSICAL PROPERTIES

Höppler viscosity at 60°C, mPa.s	6000
Colour, Gardner	max. 2
Density, g/cm ³	1.10
Molecular weight, g/mol	2000
Functionality	3
Polymer solids, % by weight	95

VISCOSITY REDUCTION

UCECOAT® 6569 can be diluted with reactive monomers such as tripropylene glycol diacrylate (TPGDA)⁽¹⁾. The specific reactive diluent(s) used will influence performance properties such as hardness and flexibility. The stability with monomer + water can not be guaranteed. If only water is used, total water content should not exceed 50% in order to maintain the product stability.

⁽¹⁾ TPGDA is produced by allnex

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.

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.