

ALIPHATIC URETHANE ACRYLATE SOLUTION

**INTRODUCTION**

UCECOAT® 6558 is an aliphatic urethane acrylate solution in water, containing approx. 50% acrylated products. The UCECOAT® 6558 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® 11 produced by allnex.

**PERFORMANCE HIGHLIGHTS**

UCECOAT® 6558 is characterized by a hazy appearance. UV cured products based on UCECOAT® 6558 are characterized by the following performance properties:

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

The actual properties of UV 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 curable products containing UCECOAT® 6558 may be applied by direct or reverse roll. UCECOAT® 6558 is highly recommended as primer for wood applications.

**TYPICAL VALUES**

Appearance	clear to cloudy liquid
Viscosity, 25°C, mPa.s	1800 - 4900
Water content, %	48.5 - 51.5
Colour, Gardner	max. 2

**TYPICAL PHYSICAL PROPERTIES**

Density, g/cm <sup>3</sup>	1.90
Molecular weight, theoretical	ca. 2000
Polymer solids, % by weight	approx. 50
Water, % by weight	approx. 50

**STORAGE AND HANDLING**

UCECOAT® 6558 is sensitive toward dephasing. Heat (especially for temperature > 40°C) and long storage time favours this dephasing which is reversible. Therefore, the product should be rehomogenised before use.

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.

In order to avoid stability problems, we recommend not to dilute the product with more water.

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 at 25°C.

Stability problems can occur if more water is added. Protect from frost.

**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.