

POLYESTER ACRYLATE OLIGOMER

**INTRODUCTION**

EBECRYL® 855 is a polyester acrylate resin. Films of EBECRYL® 855 cured by ultraviolet light (UV) or electron beam (EB) exhibits excellent adhesion, high toughness and good abrasion resistance. EBECRYL® 855 is recommended for parquet flooring and furniture applications.

**PERFORMANCE HIGHLIGHTS**

EBECRYL® 855 is characterized by a medium low viscosity. UV/EB cured products based on EBECRYL® 855 are characterized by the following performance properties:

- Excellent adhesion
- Good abrasion resistance
- Excellent toughness
- Low yellowing

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

**SUGGESTED APPLICATIONS**

Formulated UV/EB curable products containing EBECRYL® 855 may be applied by direct or reverse roll coating methods. EBECRYL® 855 is recommended for use in:

- Parquet floor applications
- Furniture coatings
- Plastic coatings
- Resilient flooring

**TYPICAL VALUE**

Colour, Gardner	max. 2
Density, g/cm <sup>3</sup> at 25°C	1.19
Functionality, theoretical	3
Oligomer, % by weight	94
Viscosity, 25°C, mPa.s	4000 - 5600

**PHYSICAL PROPERTIES**

Tensile strength, MPa	25
Elongation at break, %	5
Young's modulus, MPa	1010

**PRECAUTION**

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 vapors. 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.

**STORAGE AND HANDLING**

Before using EBECRYL® 855, consult the Safety Data Sheet for additional information on hazards, handling procedures, and recommended protective equipment.

The recommended storage temperature range for EBECRYL® 855 is 4°C to 40°C (39°F to 104°F). Care should be taken not to expose the product to high temperature conditions, direct sunlight, ignition sources, oxidizing agents, alkalis or acids. This might cause uncontrollable polymerization of the product with the generation of heat. Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers. Procedures that remove or displace oxygen from the material should be avoided. Do not store this material under an oxygen free atmosphere. Dry air is recommended to displace material removed from the container.

**STATUTORY LABELING**

Please refer to Safety Data Sheet.