

URETHANE ACRYLATE OLIGOMER

INTRODUCTION

EBECRYL® 8213 is an aliphatic urethane acrylate with 70% solid content diluted in butyl acetate. EBECRYL® 8213 exhibits good yellowing resistance and very good outdoor resistance. Furthermore this resin provides very good adhesion onto aluminium-based vacuum metallization layer and most metallic basecoats for plastic coating.

PERFORMANCE DATA

EBECRYL® 8213 is characterized by:

- Good processability for spray application
- High solid content

UV/EB cured products based on EBECRYL® 8213 are characterized by the following performance properties:

- Good outdoor resistance
- Good adhesion to plastic, metal primer and metalized layer
- Good flexibility

The actual 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

EBECRYL® 8213 is recommended for use in spray formulation in combination with other UV curable resins such as monomers and/or oligomers. The recommended application focuses on vacuum metallization topcoat, like for instance in cosmetic packaging and consumer electronics applications. This resin provides good flexibility and excellent adhesion on aluminium-based vacuum metalized layer, thermoplastic primers and most plastic substrates like ABS, PC, PMMA, PC/ABS blends etc ...

TYPICAL VALUES

Appearance	clear liquid
Höppler viscosity at 25°C, mPa.s	1400
Colour, Gardner	max. 1
Hydroxyl value, mg KOH/g	150

PHYSICAL PROPERTIES

Density, g/cm ³	1.1
Functionality, theoretical	1.4
Polymer solids, % by weight	70

STORAGE AND HANDLING

It is recommended to store this product at temperatures below 25°C under the exclusion of light. Exposure to higher temperature for prolonged periods or to direct sunlight might cause either combustion and/or uncontrollable polymerization of the product with generation of heat.

Storage and handling should make use of 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. The stability of EBECRYL® 8213 in its original packaging is guaranteed for 2 years.

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 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.

STATUTORY LABELING

For Statutory Labeling information, please refer to Safety Data Sheet.