

# EBECRYL® 8232

## AROMATIC POLYURETHANE ACRYLATE

### INTRODUCTION

EBECRYL® 8232 is a difunctional aromatic urethane acrylate. Films of EBECRYL® 8232 cured by ultraviolet light (UV) or electron beam (EB) exhibit good flexibility, excellent grit feeder abrasion resistance, good adhesion to various substrates in combination with a good solvent resistance. This EBECRYL® 8232 is recommended as sealer for parquet floor applications.

### PERFORMANCE HIGHLIGHTS

EBECRYL® 8232 is characterized by:

- Light colour
- Low odour

UV/EB cured products based on EBECRYL® 8232 are characterized by the following performance properties :

- Excellent abrasion resistance
- Very good curing reactivity
- Good flexibility and toughness
- Good solvent resistance
- Good adhesion to various substrates

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 photoinitiators.

### SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing EBECRYL® 8232 may be applied by direct or reverse roll.

EBECRYL® 8232 is recommended for use in :

- Sealer for parquet floor applications
- Coatings on rigid and flexible plastics

### TYPICAL PROPERTIES

	VALUE
Dynamic viscosity, 25 °C (DIN EN ISO 321920 1/s)	~ 7000
Colour, Gardner	max. 2
Density, g/cm <sup>3</sup>	1.1
Tensile strength, MPa <sup>(1)</sup>	10.1
Tensile elongation, % <sup>(1)</sup>	50
Young Modulus, MPa <sup>(1)</sup>	58
Glass transition temperature, °C <sup>(1)</sup>	32.3

### VISCOSITY REDUCTION

EBECRYL® 8232 can be diluted with reactive monomers such as trimethylolpropane triacrylate (TMPTA)<sup>(2)</sup>, tripropylene glycol diacrylate (TPGDA)<sup>(2)</sup>, dipropylene glycol diacrylate (DPGDA)<sup>(2)</sup>, octyl/decyl acrylate (ODA)<sup>(2)</sup> and acrylated glycol derivative (OTA 480)<sup>(2)</sup>. The specific reactive diluent(s) used will influence performance properties such as hardness and flexibility.

<sup>(1)</sup> Measured on a 100 µm EB cured film

<sup>(2)</sup> TMPTA, DPGDA, TPGDA and OTA 480 are produced by Cytec Surface Specialties.

## 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 2 years.

## 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.

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