

FULL ACRYLIC OLIGOMER

INTRODUCTION

EBECRYL® 740/40TP is an acrylic oligomer diluted with 40% tripropyleneglycol diacrylate (TPGDA). This resin is designed to provide improved adhesion to difficult substrates.

PERFORMANCE HIGHLIGHTS

EBECRYL® 740/40TP is characterized by:

- Light colour

UV/EB cured products based on EBECRYL® 740/40TP are characterized by the following performance properties:

- Flexibility
- Adhesion to difficult substrates
- Good intercoat adhesion

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

Formulated UV/EB curable products containing EBECRYL® 740/40TP may be applied by lithographic, screen, gravure, direct or reverse roll, and curtain coating methods.

EBECRYL® 740/40TP is recommended for use in:

- Silk screen inks and coatings on plastics
- Adhesives and inks for difficult substrates, such as untreated polyester, polypropylene, polystyrene, etc.
- Adhesion promoting adhesives

TYPICAL VALUES

Höppler viscosity at 60°C, mPa.s	6000 - 9000
Colour, Gardner	max. 3

PHYSICAL PROPERTIES

Density, g/cm ³	1.05
Polymer solids, % by weight	60
TPGDA, % by weight	40

VISCOSITY REDUCTION

EBECRYL® 740/40TP can be diluted with reactive monomers such as 1,6-hexanediol diacrylate (HDDA)⁽¹⁾, trimethylolpropane triacrylate (TMPTA)⁽¹⁾ and tripropyleneglycol diacrylate (TPGDA)⁽¹⁾. The specific reactive diluent(s) used will influence performance properties such as hardness and flexibility.

⁽¹⁾ product of 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 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.

See Safety Data Sheet for emergency and first aid procedures.

STATUTORY LABELING

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