

EBECRYL® 85

Amine Modified Polyether Acrylate

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INTRODUCTION

EBECRYL 85 is a low viscosity amine modified polyether acrylate that provides high reactivity in low extractable, low odor energy curable coatings and inks. Coatings and inks based on EBECRYL 85 exhibit a low odor after UV or EB curing.

PERFORMANCE HIGHLIGHTS

EBECRYL 85 is characterized by:

- Very good cure response
- Low viscosity

UV/EB cured products based on EBECRYL 85 are characterized by the following performance properties:

- High gloss
- Good solvent resistance
- Low odor

The actual properties of UV/EB cured formulations also depend on the choice of the other formulation components, such as reactive diluent(s), additives and photoinitiators.

SUGGESTED APPLICATIONS

EBECRYL 85 is recommended as the main oligomer for low extractable, low odor energy curable overprint varnishes and the let-down for energy curable flexographic inks for sensitive applications such as food packaging. It is compliant with the Nestle list on acrylates.

SPECIFICATIONS

	VALUE
Appearance	Clear liquid
Color, Gardner, max.	2

TYPICAL PROPERTIES

Density, g/mL	1.12
Nitrogen content, %	1.0
Functionality, theoretical ⁽¹⁾	3.6
Residual acrylic acid, ppm	500
Residual amine, ppm	200
Residual solvent, ppm	100
Viscosity at 25°C, cP/mPa·s	~160
Weight/amine, theoretical	1403

PRECAUTIONS

Before using EBECRYL 85, see the Safety Data Sheet (SDS) for information on the identified hazards of the material and the recommended personal protective equipment and procedures.

STORAGE AND HANDLING

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. Wash thoroughly after handling. Keep container tightly closed. Use with adequate ventilation.

See the SDS for the recommended storage temperature range for EBECRYL 85.

Please refer to the allnex Guide to Safety and Handling of Acrylate Oligomers and Monomers for additional information on the safe handling of acrylates.

(1) Theoretical determination based the undiluted oligomer.

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