

URETHANE ACRYLATE RESIN

INTRODUCTION

EBECRYL® 242N is a tin-free aliphatic urethane acrylate diluted in isobornyl acrylate (IBOA).

PERFORMANCE HIGHLIGHTS

EBECRYL® 242N is characterized by:

- Excellent flexibility
- Good adhesion to metal
- Good corrosion resistance
- Sn-free

SUGGESTED APPLICATIONS

EBECRYL® 242N is developed for the use in flexible coatings for metal substrates having good adhesion and excellent flexibility combined with corrosion resistance properties.

For the UV curing a suitable photoinitiator (e.g. Esacure KL200 from Lamberti) must be added. The quantity depends on the belt speed, number of lamps and thickness of the paint film.

PHYSICAL PROPERTIES

Density, g/cm ³	1.10
Molecular weight, theoretical	2700
Functionality, theoretical	2

TYPICAL CURED PROPERTIES

Tensile strength, psi (MPa)	4050 (28.0)
Tensile elongation, %	186
Young's modulus, psi (MPa)	22000 (150)
Glass transition temperature, °C	46

TYPICAL VALUE

Appearance	clear to slightly hazy liquid
Viscosity at 25°C, mPa.s	± 21000

STORAGE AND HANDLING

Do not expose to temperatures exceeding 40°C for a long time. Do not expose to direct sunlight. This might cause uncontrollable polymerization of the product with generation of heat. Storage in stainless steel, amber glass, amber polyethylene or baked phenolic lined container.

Use dry air to displace material removed from the container. Avoid eye and skin contact, avoid inhalation. Local exhaust is recommended. This material should not be stored for more than 2 years.

EBECRYL® 242 can become (partially) crystalline during storage at temperatures below 40°C. Crystallization does not impact the quality of the product. Before use the material should be fully liquified by heating for max. 48 hours at 80°C.

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. 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

Please refer to Safety Data Sheet.