

Ebecryl™ P 116

Technical Data Sheet

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Copolymerizable photoactive compound

INTRODUCTION

Ebecryl™ P 116 is a reactive amine additive used in place of more volatile amine synergists to increase the cure speed of ultraviolet (UV) cured coatings. When Ebecryl™ P 116 is used in combination with other photoinitiators an increase in cure speed, especially at the surface, can be realized. Recommended levels are from 5 to 10% based on total formulation, usually combined with 5% of benzophenone.

PERFORMANCE HIGHLIGHTS

Ebecryl™ P 116 is characterized by:

- Light colour
- Low viscosity
- Improved stability
- Low volatility

UV/EB cured products based on Ebecryl™ P 116 are characterized by the following performance properties:

- Faster cure response, especially at the surface
- Low odour coatings
- No reaction of amine with organic solvents
- High gloss coatings

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 curable products containing Ebecryl™ P 116 may be applied by lithographic, screen, gravure, direct or reverse roll, and curtain coating methods.

Ebecryl™ P 116 is recommended for use in:

- Overprint varnishes
- Wood fillers and top coats
- Clear coatings on paper and plastics

TYPICAL VALUES

Appearance	clear liquid
Höppler viscosity at 25°C, mPa.s	± 20
Colour, Gardner	max. 2
Density (20°C), g/cm ³	0.99
Polymer solids, % by weight	100

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 1 year.

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.

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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 LABELLING

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

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