

ACID MODIFIED ACRYLATE

INTRODUCTION

EBECRYL® 170 is an acrylate modified acidic adhesion promoting agent designed as a modifier for ultraviolet (UV) and electron beam (EB) curable coatings on metals.

PERFORMANCE HIGHLIGHTS

EBECRYL® 170 is characterized by:

- Light colour
- Low viscosity
- Acid functionality

SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing EBECRYL® 170 may be applied by lithographic, screen, gravure, direct or reverse roll, and curtain coating methods.

EBECRYL® 170 is recommended for use in:

- Solder resist formulations
- Metal coatings

EBECRYL® 170 is completely soluble in TPGDA⁽¹⁾, OTA 480⁽¹⁾, TMPTA⁽¹⁾ with limited solubility in HDDA⁽¹⁾.

Typical usage is between 1% and 10% of the total formulation. Due to its acidic character, EBECRYL® 170 can undergo hydrolysis, and therefore formulations containing EBECRYL® 170 should be kept from humidity.

Since EBECRYL® 170 can react with alkaline materials, the use of free amines, amino acrylates and basic pigments with EBECRYL® 170 should be avoided.

⁽¹⁾ TPGDA, OTA 480, TMPTA and HDDA are produced by allnex.

PHYSICAL PROPERTIES

Density, g/cm ³	1.33
Polymer solids, % by weight	100

TYPICAL VALUE

Höppler viscosity at 25°C, mPa.s	± 3000
Colour, Gardner	max. 6
Acid value, mg KOH/g	270 - 330

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.

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. This material should not be stored for more than 2 years.

Contamination of EBECRYL 170 with acetone or other ketones can cause coloration of the product upon storage.

STATUTORY LABELING

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