

CHLORINE FREE DILUTED POLYESTER

INTRODUCTION

EBECRYL® 526 is a chlorine free polyester resin diluted with TMPTA (1). It has been specifically designed to provide good adhesion to plastic substrates. Films of EBECRYL® 526 cured by ultraviolet light (UV) or electron beam (EB) result in good hardness.

PERFORMANCE HIGHLIGHTS

EBECRYL® 526 is characterized by:

- Light colour
- Chlorine free
- Good adhesion-scratch compromise

Cured films of EBECRYL® 526 show good adhesion to plastics substrates such as PE, PP, PET, PC and PVC.

The actual properties of UV/EB cured formulations based on EBECRYL®526 also depend on the selection of the other formulation components, such as reactive diluent(s), additives and photo initiators.

SUGGESTED APPLICATIONS

EBECRYL® 526 is recommended for use in:

- Inks and Over Print Varnishes for plastic and metallic substrates

UV/EB curable formulations containing EBECRYL®526 can be applied by lithography, flexography, dry offset, screen, gravure, direct or reverse roll, and curtain coating methods.

TYPICAL VALUES

Appearance	liquid
Density, g/cm ³	1.1
Viscosity at 25°C, mPa.s	± 100000
Viscosity at 60°C, mPa.s	± 1900
Colour, Apha	< 200
Acid value, mg KOH/g	< 30
Hydroxyl value, mg KOH/g	< 40

VISCOSITY REDUCTION

EBECRYL® 526 can be diluted with reactive monomers such as 1,6-hexanediol diacrylate (HDDA)⁽¹⁾, trimethylolpropane triacrylate (TMPTA)⁽¹⁾, tripropylene glycol diacrylate (TPGDA)⁽¹⁾ and oligotriacrylate (OTA 480)⁽¹⁾. The specific reactive diluent(s) used will influence performance properties such as odour, adhesion, 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 after production date.

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.