

UV / EB CURABLE SLIP AGENT

INTRODUCTION

EBECRYL® 1360 is a silicone hexa-acrylate material which contributes slip, substrate wetting and flow properties when used as an additive in formulations cured by ultraviolet light (UV) or electron beam (EB). Cured films containing EBECRYL® 1360 will exhibit a smooth, tack free surface, with good blocking resistance. Because of its acrylate functionality, the silicone cures into the polymeric backbone, thus eliminating the migration that free silicones often display in coatings.

SUGGESTED APPLICATIONS

Formulated UV/EB curable products containing EBECRYL® 1360 may be applied by lithographic, screen, gravure, direct or reverse roll, and curtain coating methods.

EBECRYL® 1360 is recommended for use in:

- Overprint varnishes
- Clear coatings on paper, plastics and metals

Usage between 0.5% and 3.0% of the total formulation is generally sufficient to provide satisfactory slip.

TYPICAL VALUES

Höppler viscosity at 25°C, mPa.s	± 2100
Colour, Gardner	max. 10
Acid value, mg KOH/g	max. 25
Residual solvent, ppm	< 10

PHYSICAL PROPERTIES

Density, g/cm ³	1.11
Functionality, theoretical	6
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.

This product may exhibit crystallization if subjected to temperatures below 15°C. This crystallization can be removed by heating containers of EBECRYL® 1360 to a uniform temperature of 40°C. Ovens or hotboxes are recommended methods of heating. Heating bands or blankets should not be used.

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.

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.