

EBECRYL™ 3203

Technical Data Sheet

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Modified polyol acrylate

INTRODUCTION

EBECRYL 3203 is a low viscosity polyol acrylate oligomer. Because of the chemical structure of this molecule it gives exceptional pigment wetting properties for black pigments. This combined with the low viscosity of this material (typically 1000 mPa.s at 25°C) makes it ideal as a pigment grinding resin. EBECRYL 3203 also gives a fast cure response when formulated with other oligomers and cured via ultraviolet light (UV) or electron beam (EB). EBECRYL 3203 is used for the preparation of high pigment loading pigment pastes produced using a triple roll mill or bead mill. EBECRYL 3203 is particularly suited to the grinding of black pigments white pigments and inorganic pigments and fillers.

PERFORMANCE HIGHLIGHTS

EBECRYL 3203 is characterized by :

- Low viscosity
- Excellent pigment wetting properties
- Good cure response

The ability to produce high pigment loading pigment pastes allows the ink formulator more latitude in formulating as less pigment paste is required to achieve a given optical density

Typical pigment paste formulations for triple roll mill

	Black
EBECRYL 3203	48.5
Additol S 120	1
Solsperse 24000	5.5
SB 250	45

The properties of UV/EB cured products also depend on other components of the formulation such as reactive diluent(s), additives and photoinitiators.

SUGGESTED APPLICATIONS

High loading pigment paste formulations prepared using EBECRYL 3203 may be used in the production of UV/EB curable inks intended for use primarily in flexography gravure and UV ink-jet.

TYPICAL VALUES

Cone and plate viscosity at 25°C, mPa.s ± 1000

PHYSICAL PROPERTIES

Density, g/cm³ 1.15
Functionality, theoretical 2.7

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 may cause uncontrollable polymerization of the product with the 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.

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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.

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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