

SILICONE MODIFIED ALIPHATIC URETHANE ACRYLATE

INTRODUCTION

EBECRYL® 8890 is a multi-functional silicone modified urethane acrylate with 70% resin content diluted in methyl isobutyl ketone (MIBK). EBECRYL® 8890 can be used to prepare UV/EB curable coatings with low surface energy providing anti-stain properties.

PERFORMANCE HIGHLIGHTS

EBECRYL® 8890 is characterized by:

- Compatibility with other commercial resins
- Low surface tension
- Low viscosity
- Light color

UV/EB cured products based on EBECRYL® 8890 are characterized by the following performance properties:

- Resistance to permanent oil markers & inks, especially in low gloss coatings
- Resistance to mechanical wearing (RCA)
- Chemical resistance
- Oil and water repellency
- Low surface energy

The actual properties of UV/EB cured products also depend on the selection of the other formulation components, such as reactive diluents, additives, and photo initiators.

SUGGESTED APPLICATIONS

EBECRYL® 8890 is intended for UV/EB cured coatings requiring stain resistance, particularly in matt gloss coatings.

TYPICAL PHYSICAL PROPERTIES

Appearance	Slightly turbid to clear liquid
Color, Gardner	max. 1
Functionality, theoretical	6
Resin solids, % by weight	≈ 70
MIBK, % by weight	≈ 30
Surface tension, mN/m	< 28
Viscosity, 25°C, mPa.s	≈ 200

TYPICAL CURED PROPERTIES

Contact angle, water	96.7°
Contact angle, CH ₂ I ₂	73.4°

PRECAUTIONS

Before using EBECRYL® 8890, see the Safety Data Sheet (SDS) for information on the identified hazards of the material and the recommended personal protective equipment and procedures.

STORAGE AND HANDLING

Care should be taken not to expose the product to high temperature conditions, direct sunlight, ignition sources, oxidizing agents, alkalis or acids. This might 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. Procedures that remove or displace oxygen from the material should be avoided. Do not store this material under an oxygen free atmosphere. Dry air is recommended to displace material removed from the container. Wash thoroughly after handling. Keep container tightly closed. Use with adequate ventilation. See the SDS for the recommended storage temperature range for EBECRYL® 8890.