

ISOCYANATE BEARING ALIPHATIC URETHANE ACRYLATE

INTRODUCTION

EBECRYL® 4765 is an isocyanate-bearing aliphatic urethane acrylate.

PERFORMANCE DATA

Formulations with EBECRYL® 4765 can be used for

- UV and EB curable, two-component polyurethane coatings
- Adhesion promoter in UV and EB curing coatings.

SUGGESTED APPLICATIONS

EBECRYL® 4765 is combined with hydroxyl-bearing resins to formulate coatings which cure by dual-cure process (UV-induced polymerization and NCO/OH reaction)

The product is also used in pure UV-curing coatings to improve the adhesion on critical substrates as plastic, metal and exotic woods.

Compared with EBECRYL® 4396; the use of EBECRYL® 4765 will result in better chemical resistance.

SPECIFICATIONS

Viscosity at 23°C, mPa.s	50 - 300
Colour, Apha	max. 100

TYPICAL PROPERTIES

Non-volatile matter, %	53.0 – 57.0
NCO-content, %	4.00 – 5.00
Density, g/cm ³ at 20°C	approx 1.05

COMPATIBILITY - SOLUBILITY

Because of the large number of possible combinations, compatibility must be tested in each case.

SUGGESTED FORMULATIONS

In general EBECRYL® 4765 is combined with further (meth-)acrylic unsaturated binders and reactive thinners.

Radical polymerization can be effected by the conventional method using peroxides and accelerators or by means of UV or electron radiation.

The use of conventional photoinitiators is necessary for the UV curing of coating containing EBECRYL® 4765. Additions depend on the reactivity requirements of the field of application. EB curing requires thorough inerting (risk of surface inhibition).

EBECRYL® 4765 can be used to modify coating that applied by roller, spray, curtain coating or printing. Such coating can be applied to a wide variety of substrates, e.g. wood, engineered wood, paper, plastics, cork and mineral and cement substrates.

Coatings containing EBECRYL® 4765 may contain common inorganic additives used in the coatings industry. With such formulations special consideration should be given to the formation of sedimentation as this can result in premature gelling of the coating.

STORAGE AND HANDLING

Storage in original sealed allnex containers. Recommended storage temperature: 0 to 30°C

Protect from intense radiation (light, UV), heat and foreign material. The product is sensitive to moisture. Skin formation may occur in opened containers.

allnex guarantees that for a period of 12 months following the day of manufacturing, the product will meet the specifications or values set forth in section "specifications or characteristic data" above, whatever is applicable, provided that the product is stored in full compliance with the storage conditions set forth in and referenced under section "storage" above and is otherwise handle appropriately.

The lapse of the 12 months period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to using said product, allnex recommend to test such a product if it still meets the specifications or the set values. allnex does not make any representation regarding the product after the lapse of the 12 months period and allnex shall not be responsible or liable in any way for the product failing to meet specifications or the set values after the lapse of the 12 months period.

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STATUTORY LABELING

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