

EBECRYL[®] 4200

Unsaturated aliphatic urethane acrylate

INTRODUCTION

Ebecryl[®]4200 is an undiluted, unsaturated aliphatic urethane acrylate designed for wood coatings (cork and parquet) with a high grit feeder abrasion resistance.

PERFORMANCE DATA

Coatings based on Ebecryl[®]4200 are characterized by:

- high elasticity
- good chemical and mechanical resistance properties
- outstanding abrasion resistance, in particular according to the grit feeder method.

SUGGESTED APPLICATIONS

Ebecryl[®]4200 is used in formulation of radiation-curing (UV and EB) coating for application by roller coating, spraying and curtain coating on wood, cork, furniture, paper, parquet and film.

SPECIFICATIONS

Viscosity at 23°C, mPa.s	8000 ±2000
Hazen colour value	≤ 150

TYPICAL PROPERTIES

Acid number, mg KOH/g	≤ 2
Hydroxyl content, %	approx 0.3
Density, g/cm ³	approx 1.13
Flash point °C	>100

COMPATIBILITY

Because of the large number of possible combinations of thinners, solvents and others substances, compatibility and storage stability must be tested in each case.

SUGGESTED FORMULATIONS

Depending on the application, the coating can be adjusted to application viscosity using standard reactive thinners (mono-, di-, tri or tetra-acrylates) or solvent such as butyl acetate.

Also Ebecryl[®] 4265 is particularly suitable for reducing the viscosity of Ebecryl[®]4200. The advantage of the use of Ebecryl[®]4265 for viscosity thinning is that the reduction in reactivity is lower than by using conventional reactive thinners.

Because of the many potential combinations with thinners and solvents compatibility must be tested in each individual case.

UV-curing of coatings formulated with Ebecryl[®]4200 requires the addition of standard commercial photoinitiators. Up to 5% is added or concentrations which meet the reactivity requirements of the application. In case of EB curing, good inertisation must be ensured (risk of surface inhibition)

Matt coating can be produced using standard matting agents. Care should be taken with respect to sedimentation which may cause the coating to gel prematurely.

STORAGE AND HANDLING

Storage in original sealed Allnex containers.

Recommended storage temperature: -10 to + 35°C

Protect from intense radiation (light, UV), heat and foreign material.

Allnex guarantees that for a period of 24 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 handled appropriately.

The lapse of the 24 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 guarantees regarding the product after the lapse of the 24 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 24 months period.

STATUTORY LABELLING

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

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