

EBECRYL®4744

Unsaturated polyester acrylate

INTRODUCTION

Ebecryl®4744 is an undiluted, unsaturated polyester acrylate designed for UV-curing and EB coatings.

PERFORMANCE DATA

Formulations based on Ebecryl®4744 exhibit high reactivity and result in hard films.

Coatings formulated with Ebecryl®4744 are characterized by very good chemical and mechanical resistance including scratch resistance. Other characteristics are high abrasion resistance and very good resistance to yellowing.

SUGGESTED APPLICATIONS

Ebecryl®4744 is a polyester acrylate with a very balanced property profile. It can be used as the sole binder or used in combination with other binders to set specific properties.

Ebecryl®4744 is used in the formulation of radiation-curing coatings (UV and electron beam) for the coating of wood, furniture, paper, parquet and films via the roller, spray and curtain coating processes.

CHARACTERISTIC DATA

Viscosity at 23°C, mPa.s	4500 - 6500
Hazen colour value	max 300

GENERAL PROPERTIES

Acid number, mg KOH/g	max 3
Hydroxyl content, %	approx 2.4
Density, g/cm ³	approx 1.15
Flash point °C	>120

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 coatings can be set to application viscosity using common reactive thinners (mono-, di-, tri-, or tetra-acrylic acid esters) or solvent (e.g. butyl acetate). Because of the low-viscosity supply from, coating formulations require less reactive thinner and thus the binder properties are retained over a broad range of viscosities.

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 date, 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 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 representation 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.

June 2015

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