

PRELIMINARY PRODUCT INFORMATION

TYPE

A-liquid epoxy resin, modified, emulsified in water

FORM OF DELIVERY (f.o.d.)

56 % in water (56WA)

DEVELOPMENT PRODUCT

This product, serving for trial purposes only. Deviations which might occur during transfer into manufacturing in a commercial scale are possible and do not constitute any material defect.

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity cone-plate apparatus (25 1/s; 23 °C)	[mPa.s]	300 - 600
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Epoxy-Equivalent VLN 305

epoxy equivalent (form of delivery)	[g/mol]	380 - 480
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Epoxy-Equivalent VLN 305

epoxy equivalent (non volatile matter)	[g/mol]	220 - 260
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	54 - 58
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Not continually determined:

Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm³]	1,10
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Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
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SPECIAL PROPERTIES AND USE

Beckopox EP 2340w is a modified A-liquid epoxy resin that is already emulsified in water. Formulated together with adequate curing agents such as Beckopox EH 623w, EH 613w or VEH 2106w it is suited for coatings on mineral and metal substrates. The end of processing time is shown by a noticeably increase of viscosity resp. gelation in combination with Beckopox VEH 2106w.

Beckopox EP 2340w can be formulated together with solid resin dispersions e.g. Beckopox EP 384w or EP 385w to improve their hardness and adhesion to porous substrates. Coatings with Beckopox EP 2340w show good drying at low temperatures and elevated atmospheric moisture.

MIXING RATIO AND POT LIFE

A blend of

100,0 g Beckopox EP 2340w/56WA
46,5 g Beckopox EH 623w/80WA
46,5 g deionized water

has a pot life at 23 °C of approx. 4 hours. The termination point cannot be observed through viscosity increase or gelation when formulated together with Beckopox EH 623w/80WA. It is therefore necessary to use the material within the stated time limit.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 180 days.

It is important to protect Beckopox EP 2340w from frost; at low temperatures it has therefore to be stored under frost proof conditions. The viscosity of Beckopox EP 2340w can drop during storage.

Lowest storage temperature: 5 °C

DISTINGUISHING FEATURES

Beckopox EP 2340w is available as emulsion. The drying is quicker at low temperatures and elevated atmospheric moisture compared to Beckopox EP 147w.

SAFETY AT WORK AND ENVIRONMENTAL PROTECTION

When handling and processing epoxy resins and hardeners, the rules and regulations established by local authorities should be observed.
A Material Safety Data Sheet is available on request.

REMARK:

Data contained in this publication are based on careful investigations (and are intended for information only). Due to scale up of this product there is not yet sufficient experience concerning serial production. We can therefore not exclude, that based on future knowledge product data and other indicated properties in upcoming Technical Data Sheets will be subject to change. We reserve the right to leave the product name unchanged, even if product data or other indicated properties will vary from the present product info. Regardless of the data contained in this publication any user is obliged to carry out tests under his own responsibility as to the suitability of the product for a particular use and to investigate the possible violation of industrial property rights of third parties. Information is therefore not binding and cannot be construed as guaranteeing specific properties of products. We apply our General Sales Conditions.