

BECKOCURE® EH 2260w/41WA



PRELIMINARY PRODUCT INFORMATION

TYPE

Aliphatic polyamine adduct

FORM OF DELIVERY (f.o.d.)

41 % in water (41WA)

DEVELOPMENT PRODUCT

This product is 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.

H-equivalent weight

(f.o.d.) 1000 g/eq
(solid matter) 420 g/eq

TENTATIVE PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219 dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	25 - 2000
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Non-Volatile Matter DIN 55671 non-volatile matter (125 °C; 10 min; 0,6 g)	[%]	39,5 - 42,5
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Particle size distribution (different equipment) VLN 285 particle size (25 °C; 10 %; Zetasizer Nano)	[nm]	< 100
polydispersity (25 °C; 10 %; Zetasizer Nano)		< 1

Not continually determined:

pH-Value DIN ISO 976 pH-value (10 %)		8 - 10
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Density (Liquids) DIN EN ISO 2811-2 density approx. (20 °C)	[g/cm³]	1,06
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Flash Point (CCCFP) ASTM D 6450 flash point	[°C]	> 95
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SPECIAL PROPERTIES

Hydrophobic amine hardener especially for the formulation of waterborne metal coatings, free of volatile basic amines and solvents. In combination with epoxy dispersions fast drying Primers and Monocoats with excellent corrosion protection and very good non-sagging properties can be formulated. The product shows excellent application behaviour and a very robust performance even on poorly prepared surfaces.

SUGGESTED USES AND PROCESSING

Beckocure EH 2260w is used together with solid epoxy resin dispersions or emulsified liquid resins. Best results are obtained using 50 - 75 % of the stoichiometric amount of hardener. The films cure rapidly at room temperature but can also be dried at elevated temperatures.

Grinding of the pigments can be done in Beckocure EH 2260w or as well in shear stable epoxy dispersions (e. g.: Beckopox EP 2384w, Beckopox EP 386, Beckopox EP 387 or Beckopox VEP 2381w). The mill base temperature should not exceed 40 °C. The use of binder-free pigment pastes is recommended when the grinding temperature cannot be controlled. Dilution can be done with Beckocure EH 2260w or an epoxy dispersion.

MIXING RATIO AND POT LIFE

A blend of

75.0 g Beckopox EP 2384w/57WA
100.0 g Beckocure EH 2260w/41WA
12.0 g deionized water

(= 100 % of the stoichiometric amount of hardener) has a processing time of approx. 60 minutes at 23 °C. The end of pot life cannot be seen by a sharp increase of viscosity or gelation. Therefore it is necessary to use the paint within the stated time limit. Addition of coalescing solvents can elongate the usable time.

STORAGE

At temperatures from 5 °C to 25 °C storage stability packed in original containers amounts to at least 365 days.

Lowest storage temperature: - 5 °C

DISTINGUISHING FEATURES

Beckocure EH 2260w is more reactive than Beckopox EH 2188 and provides a much better anticorrosion protection than Beckopox EH 613. Especially in combination with Beckopox EP 2384 very fast drying anticorrosion Primers and Monocoats can be formulated.

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.

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