

INTRODUCTION

Beckopox EH 2162W is a hardener for concrete coatings with lower viscosity and longer pot-life use time than the standard hardener for concrete coatings Beckopox EH 623w. The pot-life extension is particularly when formulated at lower VOC levels and used in combination with liquid EP-resins. Beckopox EH 2162W is lower in reactivity compared to Beckopox EH 613w.

TYPE

Aliphatic polyamine adduct

FORM OF DELIVERY (f.o.d.)

75 % in water
(contains also approx. 2.5 % methoxy propanol)

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity	[mPa.s]	1900 - 7200
(50 1/s; 25 °C)		

Iodine Colour Number DIN 6162

iodine colour number		<= 10
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Amine Value (Reaction Resins) DIN 16945 / 5.6

amine value	[mg KOH/g]	160 - 210
(form of deliver)		

Not continually determined:

pH-Value DIN ISO 976

pH-value		10 - 11
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter	[%]	73 - 77
(1 h; 100 °C; 1 g)		

Density (Liquids) DIN EN ISO 2811-2

density	[g/cm ³]	1,10
approx.		
(20 °C)		

Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
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H-equivalent weight

225 g/mol (f.o.d.)
169 g/mol (solid matter)

SUGGESTED USES

Hardener for water-reducible coatings on mineral and metallic substrates.

Beckopox EH 2162W is used in combination with the water emulsifiable liquid resins Beckopox EP 122w, EP 147w and other liquid resins such as Beckopox EP 140, EP 128 and the solid resin dispersions Beckopox EP 384w and EP 2384w (preferably in combination with liquid EP-resins) to produce water-thinnable paints hardening at room temperature.

Drying at elevated temperatures (> 60 °C) should be avoided. At such conditions traces of acrylonitrile will be released.

When pigments and fillers are being dispersed in the hardener, the temperature must not be allowed to rise above 40 °C.

MIXING RATIO AND POT LIFE

A blend of

100.0 g Beckopox EP 147w
116.5 g Beckopox EH 2162W

has a processing time at 23 °C of approx. 3 hours. The termination point cannot be visually seen through viscosity increase or gelation. Therefore it is necessary to use the material within the stated time limit.

STORAGE AND HANDLING

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.

Synthetic resins containing water may freeze or get inhomogeneous at temperatures below 0 °C. By this the product will not suffer any damage, but the necessary regeneration requires extended heat treatment at 40 - 50 °C with continuous stirring. It is therefore recommended to ensure frostproof storage of such products.

PRECAUTIONS

Lowest storage temperature: - 15 °C