

TYPE

Aliphatic polyamine adduct

H-equivalent weight

(f.o.d.) 145 g/mol
(solid matter) 116 g/mol

FORM OF DELIVERY (f.o.d.)

80 % in water (80WA)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity	[mPa.s]	23000 - 31000
(100 1/s; 23 °C)		

Amine Value (Reaction Resins) DIN 16945 / 5.6

amine value	[mg KOH/g]	220 - 240
(form of deliver)		

Iodine Colour Number DIN 6162

iodine colour number		<= 10
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Not continually determined:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity	[mPa.s]	18000 - 24000
(100 1/s; 25 °C)		

Density (Liquids) DIN EN ISO 2811-2

density	[g/cm³]	1,10
approx.		
(20 °C)		

Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
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SPECIAL PROPERTIES

Highly reactive hardener for water-reducible coatings on metallic substrates.

SUGGESTED USES AND PROCESSING

Beckopox EH 613w is used together with solid epoxy resin dispersions or emulsified liquid resins.

When used with Beckopox EP 385w coating systems for metallic substrates can be formulated with excellent water and saltspray resistance. The use of 80 % of the stoichiometric curing agent quantity has given best results. At room temperature the film cures rapidly and can also be forced dried at elevated temperatures.

When using solid epoxy resin dispersions, pigment dispersion is mostly carried out in the curing agent component. When reducing with water it should be ensured that the concentration is not lower than 20 %. It is also important that the mill base temperature does not exceed 40 °C.

It is essential to apply the paint within the time stated for pot life because the end of the pot life cannot be detected from an increase in viscosity.

MIXING RATIO AND POT LIFE

A blend of

100.0 g Beckopox EP 385w/56WA
16.3 g Beckopox EH 613w/80WA
13.7 g deionized water

has a processing time at 23 °C of approx. 90 minutes. 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

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

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.

Lowest storage temperature: - 15 °C

DISTINGUISHING FEATURES

Beckopox EH 613w has a higher reactivity than Beckopox EH 623w with a shorter pot life and is especially suited for corrosion protection primers together with Beckopox EH 385w.

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.