# BECKOPOX™ EH 623w/80WA

Technical Datasheet

## TYPE

Aliphatic polyamine adduct

## FORM OF DELIVERY (f.o.d.)

80 % in water (80WA)

**H-equivalent weight**

(f.o.d.) 200 g/mol
(solid matter) 160 g/mol

## PRODUCT DATA

**Determined per batch:**

| | | |
|---|---|---|
| **Dynamic Viscosity DIN EN ISO 3219** | | |
| dynamic viscosity (25 1/s; 23 °C) | [mPa.s] | 12000 - 21000 |
| **Amine Value (Reaction Resins) DIN 16945 / 5.6** | | |
| amine value (form of deliver) | [mg KOH/g] | 195 - 220 |
| **Iodine Colour Number DIN 6162** | | |
| iodine colour number | | <= 10 |

**Not continually determined:**

| | | |
|---|---|---|
| **Dynamic Viscosity DIN EN ISO 3219** | | |
| dynamic viscosity (25 1/s; 25 °C) | [mPa.s] | 10000 - 17000 |
| **Density (Liquids) DIN EN ISO 2811-2** | | |
| density approx. (20 °C) | [g/cm³] | 1,10 |
| **Flash Point (Pensky-Martens) DIN EN ISO 2719** | | |
| flash point | [°C] | > 100 |

## SPECIAL PROPERTIES

Hardener for water-reducible coatings on mineral and metallic substrates, hydryaulic epoxy mortars (ECC).

## SUGGESTED USES AND PROCESSING

Beckopox EH 623w is used in combination with the water emulsifiable liquid resins Beckopox EP 147w and other liquid resins such as Beckopox EP 140, EP 116 and the solid resin dispersions Beckopox EP 384w and EP 385w (preferably in combination with liquid EP-resins) to produce water-thinnable paints hardening at room temperature with good adhesion to all mineral substrates.

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

If the hardener is diluted with water there may be stability problems at solid concentrations of less than 20 %, especially at storage temperatures above 35 °C.

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

These paints retain a constant gloss irrespective of thinning ratio or the time between mixing and the end of the pot life.

Beckopox EH 623w may be used in combination with Beckopox EP 128 as an additive for hydraulic mortars, the mechanical properties of the cured system being considerably enhanced by the additive.

## MIXING RATIO AND POT LIFE

A blend of

50 g Beckopox EP 147w
50 g Beckopox EH 623w
50 g deionized water

has a processing time at 23 °C of approx. 2 - 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.



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## 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 623w is a standard hardener for concrete coatings, while Beckopox EH 613w is especially suited or coatings on metallic substrates and is higher in reactivity.

## 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.



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