

### TYPE

Aliphatic polyamine adduct

### H-equivalent-weight

(f.o.d.) 175 g/mol  
(solid matter) 140 g/mol

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

80 % in water (80WA)  
(containing also 5 % isopropanol)

### PRODUCT DATA

#### Determined per batch:

#### Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	7000 - 12000
---------------------------------------	---------	--------------

#### Amine Value (Reaction Resins) DIN 16945 / 5.6

amine value (form of deliver)	[mg KOH/g]	200 - 230
----------------------------------	------------	-----------

#### Iodine Colour Number DIN 6162

iodine colour number		<= 10
----------------------	--	-------

#### Not continually determined:

#### Density (Liquids) DIN EN ISO 2811-2

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

#### Flash Point DIN EN ISO 1523

flash point approx.	[°C]	48
------------------------	------	----

### SPECIAL PROPERTIES AND USE

Beckopox VEH 2177w is used together with solid epoxy resin dispersions or emulsified liquid resins.

In combination with Beckopox EP 384w or Beckopox EP 147w, Beckopox VEH 2177w is suited to formulate coatings for mineral substrates, they exhibit very fast drying, are abrasion and chemical-resistant.

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 carried out mostly 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 50 °C.

### MIXING RATIO AND POT LIFE

A blend of

100.0 g Beckopox EP 385w/56WA  
19.7 g Beckopox VEH 2177w/80WA  
10.3 g deionized water

has a processing time at 23 °C of approx. 2 - 2.5 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

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 VEH 2177w is somewhat more reactive than Beckopox EH 623w and is especially suited for coatings on mineral substrates together with Beckopox EP 384w.

## 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.