

# BECKOPOX<sup>®</sup> VEH 2188w/55WA

## TYPE

Aliphatic polyamine adduct

H-equivalent weight

(f.o.d.) 380 g/mol  
(solid matter) 215 g/mol

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

55 % in water (55WA)  
(containing also ca. 5 % propoxyethanol)

## PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219  
dynamic viscosity [mPa.s] 6000 - 14000  
(10 1/s; 23 °C)

Amine Value (Reaction Resins) DIN 16945 / 5.6  
amine value [mg KOH/g] 130 - 140  
(f.o.d.; LG 1)

Iodine Colour Number DIN 6162  
iodine colour number <= 25

Not continually determined:

Density (Liquids) DIN EN ISO 2811-2  
density [g/cm<sup>3</sup>] 1,08  
approx.  
(20 °C)

Flash Point (Pensky-Martens) DIN EN ISO 2719  
flash point [°C] > 85

## SPECIAL PROPERTIES

Hydrophobic amine hardener especially for the formulation of waterborne metal coatings (primers, single coats), free of volatile basic amines.

## SUGGESTED USES AND PROCESSING

Beckopox VEH 2188w is used together with solid epoxy resin dispersions or emulsified liquid resins. When used with solid resin dispersions coatings for metallic substrates can be formulated with excellent performance in humidity chamber and salt spray tests. It has been shown that best results are obtained using 70 - 80 % 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 should be done in shear stable epoxy dispersions (e. g.: Beckopox EP 384w, Beckopox VEP 2381w/2382w) because wetting properties of the hardener are not very good due to the hydrophobic backbone of the polymer and the absence of free basic amines. The mill base temperature should be as low as possible and should not exceed 40 °C at maximum. Also the use of binder-free pigment pastes is possible. It is essential to apply the paint within the time stated for its pot-life because the end of the pot-life cannot be detected by an increase of viscosity.

## MIXING RATIO AND POT LIFE

A blend of

100.0 g Beckopox EP 384w/53WAMP  
39.0 g Beckopox VEH 2188w/55WA  
7.0 g deionized water

(= 100 % of the stoichiometric amount of hardener) has a processing time of approx. 90 - 120 minutes at 23 °C. The end of pot life cannot be seen by an increase of viscosity or gelation. Therefore it is necessary to use the paint 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: - 5 °C

## DISTINGUISHING FEATURES

Beckopox VEH 2188w is lower in reactivity than Beckopox EH 613w and free of volatile basic amines. Beckopox VEH 2188w is especially suited for metal anticorrosion primers (together with Beckopox EP 384w) or metal single coats (together with Beckopox VEP 2381w or VEP 2382w).

## 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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