

TYPE

Solid epoxy resin; flexibilized; dispersion in water

FORM OF DELIVERY (f.o.d.)

52 % in water (52WA)
(containing also approx. 4.7 % methoxy propanol)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	300 - 1500
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Epoxy-Equivalent VLN 305

epoxy equivalent (form of delivery)	[g/mol]	900 - 1100
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Epoxy-Equivalent VLN 305

epoxy equivalent (non volatile matter)	[g/mol]	485 - 550
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Non-Volatile Matter DIN 55671

non-volatile matter (125 °C; 6 min; 0,7 - 1,0 g)	[%]	50 - 54
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Not continually determined:

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	50 - 54
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Colour / Appearance VLN 250

colour		whitish
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Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm ³]	1,08
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Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
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SPECIAL PROPERTIES

Internally plasticized solid resin-Type 1-dispersion with improved shear stability, e. g. for water reducible fast drying anticorrosion primers and coatings for plastics.

SUGGESTED USES AND PROCESSING

Beckopox EP 387w/52WA is an internally plasticized type 1 solid epoxy resin as aqueous dispersion.

Formulated together with adequate curing agents such as e. g. Beckopox VEH 2188w/55WA it is suited for corrosion protection primers with very good adhesion to most metallic substrates. It is also suitable for use in single coat and decorative systems for metallic substrates. For optimum corrosion protection it is recommended using 75 % of the stoichiometric curing agent quantity.

Dispersion of pigments and fillers can be done in Beckopox EP 387w/52WA if the temperature does not exceed 40 °C.

The formulated paint stability can be influenced by the additives used so that it is important to investigate their suitability thoroughly; such additives should not contain functional groups capable of reacting with epoxy groups.

MIXING RATIO AND POT LIFE

A blend of

100,0 g Beckopox EP 387w/52WA
28,5 g Beckopox VEH 2188w/55WA
20,0 g deionized water

has a pot life at 23 °C of approx. 6 hours. It is necessary to use the material within the stated time limit. The substrate temperature should not be below 12 °C and the relative humidity not above 80 %.

STORAGE

At temperatures from 5 °C to 30 °C storage stability packed in original containers amounts to at least 365 days.

It is important to protect Beckopox EP 387w/52WA from frost and direct sunlight; at low temperatures it has to be stored under frostproof conditions.

As a result of the high solids content of the product and the solid resin character of the polymer, the product tends to form a tiny skin upon foaming and temperature changes during storage. Therefore filtration of the product (without heating) before applied by the end-user is recommended. The viscosity of Beckopox EP 387w/52WA can drop during storage.

Lowest storage temperature: 5 °C

DISTINGUISHING FEATURES

Beckopox EP 387w/52WA is internally plasticized and therefore more flexible than Beckopox EP 384w/53WAMP.

Pigments and fillers can be dispersed in Beckopox EP 387w/52WA.

SAFETY AT WORK AND ENVIRONMENTAL PROTECTION

When handling and processing epoxy resins and hardeners, please notice the information in the material safety data sheet (MSDS) and observe the rules and regulations established by local authorities.