

TYPE

Solid epoxy resin; dispersion in water

FORM OF DELIVERY (f.o.d.)

57 % in water (57WA)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	300 -1300
---------------------------------------	---------	-----------

Epoxy-Equivalent VLN 305

epoxy equivalent (form of delivery)	[g/mol]	650 - 850
--	---------	-----------

Epoxy-Equivalent VLN 305

epoxy equivalent (non volatile matter)	[g/mol]	400 - 500
---	---------	-----------

Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g)	[%]	55 - 59
---	-----	---------

Not continually determined:

Colour / Appearance VLN 250

colour		whitish
--------	--	---------

Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm ³]	1,09
-------------------------------	----------------------	------

Flash Point (CCCFP) ASTM D 6450

flash point	[°C]	> 94
-------------	------	------

SUGGESTED USES AND PROCESSING

Beckopox EP 2384w is a type 1 solid epoxy resin as aqueous dispersion. Formulated together with suitable curing agents such as Beckopox EH 623w, EH 659w, VEH 2188w or VEH 2177w it results in rapid drying coating systems for mineral and metal substrates. The rapid drying property makes it possible to apply more coats within one working day.

Dispersing of pigments and fillers can be carried out in Beckopox EP 2384w if the temperature does not exceed 40 °C. The formulated paint stability can be influenced by additives; the 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 2384w/57WA
50.6 g Beckopox VEH 2188w/55WA

has a pot life at 23 °C of approx. 3 hours. The termination point cannot be observed through viscosity increase or gelation, it is therefore 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 up to 25 °C storage stability packed in original containers amounts to at least 180 days.

It is important to protect Beckopox EP 2384w 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.

It is important to know that Beckopox EP 2384w tends to syneresis (settling) after long storage.

Compared to drum packaging, the tendency of syneresis of Beckopox EP 2384w is higher in IBC packaging. The syneresis can be reversed by stirring / mixing.

Syneresis of Beckopox EP 2384w in IBC's can't be argued as claim reason!

Lowest storage temperature: 5 °C

DISTINGUISHING FEATURES

Compared to Beckopox EP 384w; Beckopox EP 2384w contains no benzyl alcohol, shows faster curing and develops harder films.

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.