

TYPE

Solid epoxy resin

FORM OF DELIVERY (f.o.d.)

50 % in methoxypropyl acetate (50MPAC)

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity cylinder system (100 1/s; 23 °C)	[mPa.s]	7000 - 12000
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Epoxy-Equivalent VLN 305

epoxy equivalent (form of delivery)	[g/mol]	4800 - 7000
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Epoxy-Equivalent VLN 305

epoxy equivalent (non volatile matter)	[g/mol]	2400 - 3500
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Iodine Colour Number DIN 6162

iodine colour number		<= 5
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Non-Volatile Matter DIN EN ISO 3251

non-volatile matter (1 h; 125 °C; 1 g; ethyl acetate)	[%]	48 - 52
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Not continually determined:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity cylinder system (100 1/s; 25 °C)	[mPa.s]	6000 - 10000
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Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm ³]	1,07
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Flash Point DIN EN ISO 1523

flash point approx.	[°C]	48
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SPECIAL PROPERTIES AND USE

Beckopox EP 309 is a high-molecular unmodified epoxy resin (type 9) mainly used in combination with phenolic resins for stoving systems, e. g. can coatings. Such combinations yield high-deformable coatings with excellent resistance against chemicals and foodstuff.

Due to its high hydroxyl value (approx. 225, calculated on solid resin) Beckopox EP 309 is very good suited for crosslinking with polyisocyanates. Such combinations yield at ambient temperature curing coatings of very high solvent-resistance.

For further indications please see Technical Data Sheet for Beckopox EP 309/100 %.

STORAGE

At temperatures up to 25 °C storage stability packed in original containers amounts to at least 365 days.

DISTINGUISHING FEATURES

The delivery form Beckopox EP 309/50MAPC allows a direct use without complicated dilution process which is necessary with the solid resin. Beckopox EP 309 shows similar properties as Beckopox EP 307 but higher flexibility of cured films and lower solid content in coating formulations.

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.

