BECKOPOX™ EP 140

Technical Datasheet

TYPE

A-liquid epoxy resin

SPECIAL PROPERTIES AND USE

Standard liquid resin for coatings with high chemical resistance. Adhesives, trowelling casting and laminating compounds

FORM OF DELIVERY (f.o.d.)

100 %

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219		
dynamic viscosity (25 1/s; 23 °C)	[mPa.s]	11000 - 15500
Epoxy-Equivalent VLN 305		
epoxy equivalent (form of delivery)	[g/mol]	180 - 190
Iodine Colour Number DIN 6162		
iodine colour number		<= 3

Not continually determined:

Density (Liquids) DIN EN ISO 2811-2		
density approx. (20 °C)	[g/cm³]	1,16
Flash Point (Pensky-Martens) DIN EN ISO 2719		
flash point	[°C]	> 100

DILUTABILITY

special white spirit 100/140	○	methoxypropyl acetate	●
xylene	⊙	methoxypropanol	●
acetone	⊙	ethanol	○
methyl ethyl ketone	●	butanol	○
methyl isobutyl ketone	⊙	isopropanol	○

● = unlimited dilutability
⊙ = limited dilutability
◘ = substantial dilutability
○ = very limited or no dilutability

COMPATIBILITY

% Beckopox EP 140	90	75	50	25	10
% other binder	10	25	50	75	90
Epoxy resins					
Beckopox EP 075	●	●	●	●	●
Beckopox EP 116,EP 117, EP 128	●	●	●	●	●
Beckopox EP 151, EP 147w	●	●	●	●	●
Epoxy type 1, 4	●	●	●	●	●
Epoxy type 7, 9	●	●	●	●	●
Other binders					
dibutyl phthalate	●	●	●	●	●
Resamin HF 480	●	●	●	●	●
Novares LA 700	●	●	●	●	●

● = definite compatibility
○ = very limited or no compatibility

SUGGESTED USES AND PROCESSING

Beckopox EP 140 is a solvent-free liquid epoxy resin.
Depending on choice of curing agent it can be cured at either room or elevated temperatures.
Cured systems show excellent resistance to chemicals, solvents and moisture. The shrinking of castings is low, such systems show good adhesion and excellent electrical properties.

Major uses are:
- in the construction field for chemical and abrasion resistant flooring compounds, for sealing and repairing stone and concrete structures,
- anticorrosion/solvent-free coating systems
- for cold and heat-curing trowelling and adhesive systems
- in the electrical industry for castings, impregnations and composites,
- for tool- and mould constructions, patterns, models and fixtures.

Curing and processing of the resin mix can be carried out at room or elevated temperatures. The use of vacuum is also possible.

STORAGE

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

If Beckopox EP 140 develops a haziness or cristallizes upon storage, the resin can be fully restored by warming up to 50 - 70 °C for a certain time (preferably with stirring). To avoid these cristallization effects in general storage at elevated temperatures (40 - 60 °C) is recommended.

DISTINGUISHING FEATURES

Beckopox EP 140 is a liquid standard epoxy resin, similar in properties to Beckopox EP 116 - but shows cristallization tendency at lower temperatures.

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.

Production:
Novares LA 700 (VFT AG)