

TYPE

A/F - liquid epoxy resin; reactive diluted

FORM OF DELIVERY (f.o.d.)

100 %

SPECIAL PROPERTIES AND USE

Non-crystallizing, reactive diluted liquid resin for chemical-resistant coatings, concrete injections, adhesives, trowelling casting and laminating compounds

PRODUCT DATA

Determined per batch:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (100 1/s; 23 °C)	[mPa.s]	800 - 1200
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Epoxy Equivalent DIN EN ISO 7142

epoxy equivalent (form of delivery)	[g/mol]	175 - 185
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Iodine Colour Number DIN 6162

iodine colour number		<= 5
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Not continually determined:

Dynamic Viscosity DIN EN ISO 3219

dynamic viscosity (500 1/s; 23 °C)	[mPa.s]	800 - 1200
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Density (Liquids) DIN EN ISO 2811-2

density approx. (20 °C)	[g/cm³]	1,13
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Flash Point (Pensky-Martens) DIN EN ISO 2719

flash point	[°C]	> 100
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DILUTABILITY

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

● = unlimited dilutability

⊙ = substantial dilutability

⊙ = limited dilutability

○ = very limited or no dilutability

COMPATIBILITY

% Beckopox EP 117	90	75	50	25	10
% other binder	10	25	50	75	90

Epoxy resins

Beckopox EP 075	●	●	●	●	●
Beckopox EP 116, EP 128, EP 140	●	●	●	●	●
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 117 is a solvent-free liquid, reactive-diluted non-crystallizing epoxy resin. With suited Beckopox hardeners duroplastes with low shrinkage are obtained - they can be used also for coatings with low film thickness.

Important uses are:

- highly loaded mortars for industrial flooring subjected to vehicle traffic,
- highway repair mortar, bridge surfacing compounds,
- non-slip coating for e.g. aircraft carriers,
- metallic and concrete loading ramps,
- concrete repair mortar,
- adhesives and adhesive mortars e.g. for laying ceramic floor tiles.

Beckopox EP 117 can be combined with all hardeners but is often used with Beckopox EH 661 especially for highly filled systems in the construction field - enabling mortar compounds with low linear coefficient of expansion similar to that of concrete to be formulated. With high loading (1 : 8) excellent mechanical properties e.g. tensile strength according to DIN 53454 of approx. 160 N/mm² or to DIN 1164 of 120 N/mm² and a flexural tensile strength of approx. 40 N/mm² are achieved.

STORAGE

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

DISTINGUISHING FEATURES

Beckopox EP 117 is a resin whose viscosity has been adjusted using a reactive diluent. The non-crystallizing properties of the base resin Beckopox EP 116 have been largely retained. Enhanced is the extender/pigment loading capacity of Beckopox EP 117, therefore the resin is preferably used for highly filled systems.

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.

Producer:
Novares LA 700 (VFT AG)