

TECHNICAL DATA SHEET No.228

LawiDox Epoxidharz-Grundierung

Solvent-free and self-spreading building resin primer

colourless

I. Product

einZA LawiDox Epoxidharz-Grundierung is a high quality, solvent-free epoxide primer, which is used as adhesion enhancing and levelling primer. Combined with siliceous sand smoothing levelling compounds will be reached, also used for priming stoppings and as reparation or compensating mortar for mineral areas. Thoroughly penetrating, self-spreading epoxide resin with high bending tensile strength. Safe basis and system product for following coatings with einZA LawiPox Epoxidharz-Versiegelung or with einZA LawiDox Epoxidharz-Beschichtung.

Application purpose	solvent-free 2-component epoxide primer with universal application
Application	for preparing levelling compounds and prime fillings, epoxide resin-compensating mortar for egalisations of mineral surfaces made of concrete and cement floor of quality standard B 25 or ZE30.
Colour shade	colourless
Gloss level (85°)	20 - 30 silk-glossy (regarding DIN 67 530)
Specific weight	approx. 1.32 g/cm ³ (ready-to-use mixture)
Binder basis	2-component epoxide resin combination
Solid content	> 99 weight %
Mixing ratio	master batch : hardener = 2 : 1 (weight %) master batch : hardener = 100 : 54 (volume %)
Package sizes	30 kg - 10 kg - 5 kg (master batch and hardener in unit packages) 1 kg (master batch and hardener in combined package)

II. Properties and working instructions

Impact resistance	> 1.5 N/mm ² DIN EN ISO 1542
Pressure resistance	80 N/mm ² DIN EN 196/1
Bending tensile strength	35 N/mm ² DIN EN 196/1
Compatibility	do not mix with other products
Dilution	do not dilute, only applicable in original condition
Consumption	approx. 300 - 400 g/m ² as primer 400 - 600 g/m ² for levelling compounds

Establishing the ready-to-use composition

In case of combi-packages the material weighted in the factory will be delivered in the exact mixing ratio. The package of the master batch of einZA LawiDox Epoxidharz-Grundierung has enough volume to absorb the total amount of the hardener for the einZA LawiDox Epoxidharz-Grundierung.
Fill the hardener completely into the package of the master batch.

P.T.O.!

The mixing will be effected mechanically by a slow stirrer with a number of revolutions of 200 - 400 U/min and shall take 2 - 3 minutes till a homogenous compound free of streaks arises. To avoid mixing faults we recommend to decant the master batch/hardener composition basically into a clean container and to mix again briefly („Umtopfen“). In case of partly removal the components have to be stirred and weighted in the mixing ratio.

Pot life (Processing time)	max. 60 minutes at 10 °C max. 30 minutes at 20 °C max. 15 minutes at 30 °C
	The processing of einzA LawiDox Epoxidharz-Grundierung within this time is mandatory. We recommend to check the processing time with a watch. Exceeding the pot life will cause lower firmness and crawling with the surface.
Processing temperature	min. 10 °C (air and object temperature) and max. 30 °C
Processing regulations	The object temperature (floor) and room (air) may not be below 10 °C and/or the air humidity may not be more than 75 %. The temperature difference between floor and room temperature has to be lower than 3 °C so that the hardening will not be disturbed. In case of a dew point situation a regular drying is not possible and hardening disturbances and staining will occur.
Processing properties	Before processing assure a suitable processing temperature of einzA LawiDox Epoxidharz-Grundierung of min. 10 - 15°C.
Drying resp. hardening times at a rel. air humidity of 65 %	walkable after approx. 12 - 14 hours at 10° C walkable after approx. 6 - 8 hours at 20° C walkable after approx. 5 - 6 hours at 30° C mechanically stressable after 2 - 3 days complete hardening and chemically stressable after approx. 7 days
Reworkable	after 18 - 24 hours, at the latest after 48 hours at 20 °C
Cleaning of tools	immediately after use with einzA Universal Nitroverdünnung A I. Dried material can only be removed mechanically.
Storage	dry and protected against frost. Ideal storage temperature 10 – 20 °C. Close opened containers tightly and use at short notice.

III. Coating and/or applying technique

Preparation of surfaces and processing regulations

The surface to be coated has to be even, dry, free of dust, sufficiently impact and pressure resistant and free of weak adhesive components and scaps. Adhesion lessening substrates like grease, oil and colour residues have to be removed accordingly beforehand.

Loose and separative acting substrates like for example laitances, sinter layer and rubber abrasion have to be removed accordingly mechanically with suitable tools. Provided by the customer it has to be assured that the surface is isolated against ascending humidity.

Notices of professional associations like for example Bundesverband Estrich und Belag e.V. with „BEB-Arbeitsblätter“ KH-0/U and KH-0/S in the current copy have to be regarded. Surfaces have to be prepared mechanically.

Concrete and floor pavement surfaces have to be hardened at least for one month and confirm to the requirements of the minimum strength classes B 25 according to DIN 1045 resp. ZE 30 according to DIN 18 560, part 1. Suitable for coating are surfaces which fulfill the requirements of quality standard C20/25 for concrete floors resp. quality standard CT-C35-F5 for cement floor.

The surface stability (separation stability of the surface) has to be at least 1.5 N/mm (AGI-process sheet A 80).

The cementitious floor pavement has to be dried up to the so called household dampness, that means that the moisture content may be max. 2 - 5 %. This content is normally reached after drying the surfaces for one month. In case of doubt a moisture measurement with a CM-indicator has to be made. The surface residual moisture may not exceed 4 CM% for concrete and cement floor pavements and 0.5 CM% for anhydrite floors (calcium sulfate floor pavement).

Adjoining coating surfaces of iron and steel, zinc or light metal will be, after pre-treating accordingly, primed with einzA Lawirostal 2-K-Epoxi-Primer before coating (please request the Technical Data Sheet and consider).

P.T.O.!

Mixing ratio of einZA LawiDox Epoxidharz-Grundierung as levelling compound:

1.0 kg einZA LawiDox Epoxidharz-Grundierung
0.5 - 0.8 kg sand mix of 1 part *siliceous sand 0.3 - 0.8* and 1 part *siliceous sand 0.7 - 1.2*

Mixing ratio of einZA LawiDox Epoxidharz-Grundierung as epoxide resin mortar:

1.0 kg einZA LawiDox Epoxidharz-Grundierung
8.0 - 12.0 kg *siliceous sand 0.7 - 1.2*

In case of adding aggregates the binder has to be premixed and then the aggregate (silicious sand) will be added. The quantity of the sand mix to be added depends on the requested consistency and firmness.

System structures and working methods

Priming with einZA LawiDox Epoxidharz-Grundierung: Processing of the primer is effected immediately after mixing with coating knife, spatula or nylon roll. Apply the material in an even, compact layer on the surface. In case of intense adhesion of the surface we recommend a second layer or a saturated levelling compound to reach a compact surface. For ideal adhesion we recommend to grit the surface in fresh condition with *siliceous sand* (graining 0.3/0.8 mm). This process is mandatory in case the following coatings will be effected later than 48 hours after priming.

Levelling compounds with einZA LawiDox Epoxidharz-Grundierung: For smoothing the surface as well as for complete pore closing a levelling compound will be applied before applying a coating. This can be effected with a trowel, metal doctor blade or rubber squeegee. The consistency has to be adjusted to the adhesion of the surface and in a way that the material flows without leaving trowel marks.

Prime fillings with einZA LawiDox Epoxidharz-Grundierung: Primings can be applied as smooth compound at the same time if it is secured that in one layer a sufficient pore closing is reached for following coatings. Generally, prime coatings with 0.5 kgs sand mix of 1 part *siliceous sand 0.3 - 0.8* and 1 part *siliceous sand 0.7 - 1.2* can be filled-up on 1 kg of einZA LawiDox Epoxidharz-Grundierung. Application is effected with a plane rubber squeegee and a consumption of 0.7 - 1.0 kg/m², depending on the roughness depth of the surface.

einZA LawiDox Epoxidharz-Grundierung as epoxide resin mortar: For repairs dimension-stable mortar compounds can be formed (the weight loss after 28 days is only 0.3 %). Processing has to be effected immediately after mixing. Drawing up of the mortar with a rod, intensifying with the smoothing trowel and smooth.

IV. Security advice and labelling

The product is subject to the Ordinance on Hazardous Substances.

All necessary advices are included in the Safety Data Sheet according to the CLP regulation (GHS) corresponding the regulation (EG) no. 1272/2008. At any time available at www.einzA.com or to be requested by sdb@einzA.com.

Labeling notes on the container labels have to be considered !

VOC-content regarding enclosure II of the VOC guideline 2004/42/EG


VOC limit value enclosure II A (sub-category j)

Lb: max. 500 g/l reg. level II (2010)

VOC-content of the ready-to-use mixture of einZA LawiDox Epoxidharz-Grundierung: < 500 g/l

P.T.O.!

CE-labeling regarding enclosure ZA 1 of the EN 13 813

	
einZA Lackfabrik GmbH · 21109 Hamburg 12	
EN 13813-SR-B1,5-AR0,5-IR5 Kunstharzestrichmörtel/ -Beschichtung für Innen, Aufbau gemäß Produktinformation	
Brandverhalten:	E _{fl}
Freisetzung korrosiver Substanzen:	SR
Wasserdampfdurchlässigkeit:	NPD
Verschleißwiderstand nach BCA:	AR 0,5
Haftzugfestigkeit:	B 1,5
Schlagfestigkeit:	IR 5
Trittschallisolierung:	NPD
Schallabsorption:	NPD
Wärmedämmung:	NPD
Chemische Beständigkeit:	NPD

NPD = No Performance Determined (Kennwert nicht festgelegt)



The previous information has been conscientiously compiled according to the present state of knowledge of test technology and should serve as a guideline. Due to the multitude of uses and working methods, it is non-binding, does not establish any contractual legal relationship and does not release the consumer from his own responsibility of checking our products himself. Otherwise, our conditions of delivery and payment apply.

Issued 08/2016 with this, all previous specification sheets are invalid.