

TECHNICAL DATA SHEET No. 227

LawiPox Epoxidharz-Versiegelung

Water dilutable 2-component garage coating

colour matching with **einZAmix**



I. Product

einZA LawiPox Epoxidharz-Versiegelung is a water dilutable, low odour emission and easy to process 2-component EP-coating for hard-wearing sealings for inside application. The product-specific chemical cross linking results in plasticizer and chemical resistant floor coatings with high bending tensile strength, for all mechanically stressed surfaces, to protect concrete and cement floors in storage and production halls, sales rooms, workshops, cellars and garages. Very good adhesive, semigloss and diffusable (water vapour permeable) 2-layer-system for untreated floor areas and old coatings in need of renovation. Even spreading with decorative surface finish.

Application purpose	water dilutable, 2-component Epoxi floor coating for inside application
Application	abrasion resistant coating with generally good chemical resistance for mineral surfaces made of concrete and floor pavement. Also suitable for stable old coatings (apply a test area).
Colour shades	Kieselgrau RAL 7032, other colour shades obtained by using einZA mix W with the base colours 1 and 3
Gloss level (85°)	20 - 30 semigloss (according to DIN 67 530)
Specific weight	approx. 1.32 g/cm ³ (ready-to-use mixture)
Binder basis	2-component epoxide resin combination
Mixing ratio	master batch : hardener = 5 : 1 (weight %) or 4.15 : 1 (volume %)
Package sizes	25 kg (only colour shade RAL 7032) 10 kg - 6 kg (master batch and hardener in unit packages) 1 kg (master batch and hardener in combined package)

II. Properties and working instructions

Chemical resistance	resistant to hydrous solutions, thinned lye and acids, saline solutions, de-icing salt, petrol as well as motor and heating oil. Depending to the chemical exposition colour changes may occur which however do not effect the technical function of the coating.
Adhesion / Abrasion resistance	values fulfill the demands of DIN and VOB conditions
Light resistance	good (inside). At UV- and weather influences epoxide resins are generally not permanently colour steady. A yellowing, depending on the strength and duration of UV-exposure and an associated colour change is due to the system and can not be avoided.
Compatibility	do not mix with other products

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Dilution	water
For rolling	undiluted, as primer 5 - 10 % diluted with water
Consumption	approx. 250 - 350 g/m ² per layer ready-to-use mixture
Establishing the ready-to-use composition	<p>In case of combi-packages the material weighted in the factory will be delivered in the exact mixing ratio. The package of einzA LawiPox Epoxidharz-Versiegelung has enough volume to absorb the total amount of the hardener for the einzA LawiPox Epoxidharz-Versiegelung.</p> <p>Fill the hardener for the einzA LawiPox Epoxidharz-Versiegelung completely into the package of the einzA LawiPox Epoxidharz-Versiegelung (master batch).</p> <p>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. In case of dilution with water both components have to be mixed completely first and then add water and homogenise again completely. To avoid mixing faults we recommend to decant the resin/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 ration.</p>
Pot life (processing time)	<p>max. 80 minutes at 15 °C max. 70 minutes at 20 °C max. 40 minutes at 30 °C</p> <p>The processing of einzA LawiPox Epoxidharz-Versiegelung within this time is mandatory. The end of the pot life is not visible.</p> <p>We recommend to check the processing time with a watch. Exceeding the pot life will cause gloss and colour shifting as well as lower firmness and crawling with the surface.</p>
Processing temperature	min. 15 °C (air and object temperature) and max. 30 °C
Processing regulations	The object temperature (floor) and room (air) may not be below 15 °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	<p>Before processing assure the suitable processing temperature of einzA LawiPox Epoxidharz-Versiegelung of min. 15 °C.</p> <p>As for all reaction resins the processing should be effected immediately after mixing. The application will be effected with a lintless velour sealing roller and roller grid. Generally, working areas should be determined to avoid multiple coatings and disarranged overlapping. In case of bigger areas we recommend two or more workers to apply the coating. One or more worker apply the material in one direction and another worker takes care for spreading the fresh sealing material in cross coats (90°-angle).</p> <p>For bigger areas a roll with 50 cm width should be used. The roll for spreading should be saturated/coated with material and be used only for spreading and not for application of the sealing. Always work „wet-on-wet“ and take care for the ideal spreading. Ponding has to be avoided necessarily as blooming is possible. During hardening take care for good ventilation.</p>
Drying resp. hardening times at 65 % rel. air humidity	<p>walkable after approx. 24 - 36 hours at 15 °C walkable after approx. 18 - 24 hours at 20 °C walkable after approx. 14 - 18 hours at 30 °C mechanically stressable after 2 - 3 days complete hardening and chemically stressable after approx. 7 days</p>
Reworkable	after 18 - 24 hours, at the latest after 48 hours at 20 °C
Cleaning of tools	<p>immediately after use with water. Dried material can only be removed mechanically.</p>
Storage	dry and protected against frost. Ideal storage temperature 10 - 20 °C. Close opened containers tightly and use at short notice.

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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 mechanically accordingly 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. die „BEB-Arbeitsblätter“ KH-0/U and KH-0/S in the current copy have to be regarded. Surfaces have to be prepared mechanically, in case of smooth coatings especially diamond grinding is suitable, as with this a smooth surface will be reached. Ideal suitable is shot peening. As in this case generally a roughness depth of < 0,5 mm arises a levelling compound with einZA LawiDox Epoxidharz-Grundierung is necessary at the ratio of 2:1 with kiln-dried siliceous sand with graining 0.3/0.8 mm.

Concrete and floor pavement surfaces have to be hardened at least for one month and confirm to the requirements of the minimum concrete strength classes B 25 according to DIN 1045 resp. ZE 30 according to DIN 18 560, part 1. For surfaces made of cement being traffic-stressed the requirements of quality standard C30/37 up to quality standard C35/45 have to be fulfilled.

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).

Asphalt floors must have a sufficient load solidity that means it has to be a hard-asphalt with at least 90 % aggregates. Asphalt floors with less aggregates and low-density-asphalt are not suitable as coating surface.

Unevenness of the surface like for example holes or surface defects have to be adjusted with an epoxide resin mortar of einZA LawiDox Epoxidharz-Grundierung with mortar adjustment, please see corresponding Technical Data Sheet.

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).

System structures

Grind and thoroughly vacuum off (industrial vacuum) the surface.

Old surfaces have to be cleaned thoroughly before mechanical pre-treatment.

If old synthetic resin surfaces will be renovated please ensure by examination that a sufficient adhesion will be reached.

Sound old coatings have to be grinded intensively to avoid wetting disturbances of the einZA LawiPox Epoxidharz-Versiegelung. In case of doubt a test area has to be applied.

Strongly absorbing surfaces need an additional priming with einZA LawiDox Epoxidharz-Grundierung as necessary.

- Priming coat with nylon roller with einZA LawiPox Epoxidharz-Versiegelung, 5 - 10 % diluted with water. Consumption: 250 - 350 g/m²
- Final coat with nylon roller in cross coats with einZA LawiPox Epoxidharz-Versiegelung. Consumption: 250 - 350 g/m²

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. 140 g/l reg. level II (2010)

VOC-content of the ready-to-use mixture of einZA LawiPox Epoxidharz-Versiegelung: < 140 g/l

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CE-labelling regarding enclosure ZA 1 der 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:	NPD
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.

Issue 01/2022; with this, all previous specification sheets are invalid.