

TECHNICAL DATA SHEET No.144



LawiPur BW

2-component floor and wall coating, water-dilutable

Colour matching with **einZA mix**

I. Product

einZA LawiPur BW is a two-component, water-dilutable, odour less special coating for mechanically stressed surfaces inside and outside. Usable as well for decorative designs of floor and wall with PALMTEX Glasgewebe. The silk-glossy coating is fork lift permanent, wheel and plasticizer resistant with good chemical resistance. einZA LawiPur BW is suitable for floor spaces in warehouses and factories, facilities, cellars, staircases, garages, parking garages as well as for walls and architrave blocks in the industrial, sanitary or hospital area.

Type of material	water-dilutable two-component polyurethane resin coating
Application purpose	for floors and walls made of concrete, floor pavement, fibre cement, plaster board (with fibre embedding), plaster and walls, hard asphalt, wood and pre-treated metal surfaces.
Colour shades	steingrau RAL 7030, kieselgrau RAL 7032 as well as a wide range of colour shades obtained by using the einZA mix paint mixing system (einZA mix W with basis 2 and 3)
Gloss level	silk-glossy
Specific weight	approx. 1.25 (ready-to-use mixture)
Binder basis	2-component polyurethane combination
Mixing ratio	master batch : hardener = 5 : 1 Vol.% or 6,25 : 1 Gew.%
Pigment basis	lightfast, weatherproof pigments and fillers
Temperature-resistant	up to approx. 120 °C
Package sizes	10 l - 3 l (master batch + hardener)

II. Properties and working instructions

Chemical stability	resistant against lye, saline solutions, freeze-thaw, benzin, mineral oil, alcohol, water und disinfectants. Please ask for checklist.
Abrasion-/weather-resistance/adhesion/elasticity/impact-resistance	meets the requirements of DIN-norms and VOB-requirements
Ease of decontamination	decontaminable according to DIN 25 415 part 1 (tested by the BAM, Berlin)
Light stability	good
Compatibility	do not mix with other products
Dilution	Water
Application	by brushing and rolling, undiluted. as base coat on hard asphalt diluted up to 10 % with water
Consumption:	approx. 200 ml/m ² res. 5 m ² /l ready compound

P.T.O. !

Drying time (20 °C, 65 - 75 % rel.humidity, 200 µm wet film)	dust-free after approx. 6 h tack-free after approx. 9 - 10 h Lower temperatures and higher humidity will prolonge drying time. Higher temperatures will fasten drying time.
Ready for painting	earliest after 12 h (depending on temperature and humidity), but further coating within 24 h, otherwise an intermediate grinding will be necessary.
Walkable	over night
Important note:	A total mechanical and chemical capacity of water dilutable 2-component-PU-systems has been reached after complete cross-linking and appropriate hardening. <u>einza LawiPur BW is cured and has its total capacity after approx. 7 days.</u>
Potlife (20° C)	Ready compound of einza LawiPur BW has to be used within 2 h. End of potlife is noticeable by strong foaming and thickening in the barrel. Higher temperatures and air humidity could shorten potlife.
Setting up ready-to-use compound	Barrels of einza LawiPur BW contain exact adapted quantities of basis lacquer and hardener. Mixing the hardener to the basis lacquer and mechanically mixing it with stirrer until a homogeneous compound arises. To serve as security the compound should be repoted. Ready compound can be used after approx. 10 min.
Important notes:	Shades which are produced with einza mix the making of the shade will be carried out in the basis lacquer. Upon completion of the shade and before using the hardener will be added. A slight shade difference could occur as the final shade will arise after adding the hardener. Do not use in case of temperatures below + 10°C and over + 30°C (surface and room temperature) and a rel. air humidity over 80 %. Take care of a good aeration and deaeration during using and drying so humidity can discharge and no coating damages occur. Do not use outside during rain or frost. Cleaning of tools immediately after use.
Storage	cool but frost-free. In closed original containers at least 1 year.

III. Coating and/or applying technique

einza LawiPur BW results in a mechanical stressable coating in case of professional and appropriate processing and is usable as a system-product with einza PALMTEX Glasgewebe for chemical and mechanical stressed walls.

Decorative floor and wall designs can be reached by scattering with einza DekorChips.

Surface preparation:

Basis for the durability of einza LawiPur BW is a proper condition of the surface.

The surface has to be solid, dry, free of grease, sustainable and absorbent. Provided by the customer it has to be assured that the surface is isolated against ascending humidity. Loose and substances which seem to separate, for example laitances, sinter layers and rubber abrasion, have to be removed mechanically with adequate tools.

Smaller areas can be prepared with grinding machines with steel adaptors, in case of larger areas the surface has to be prepared by shot peening, milling or similar processing. Surfaces have to be dedusted thoroughly afterwards.

Even surfaces have to be roughen mechanically.

Sustainable surfaces with oil or grease contamination have to be cleaned with a high pressure cleaner using einza Aktivreiniger with water or steam jet, cleaning with clear water thoroughly afterwards.

Concrete and floor pavement surfaces have to be setted at least one month and conform to the requirements of the minimum strength classes B 25 according to DIN 1045, resp. ZE 30 according to DIN 18 560, part 1.

The surface stability (separation stability of the surface) has to be at least 1,5 N/mm (AGI-worksheet A 80). The cementitious floor pavement has to be dried up to so called household dampness that means the moisture content may be 2-5 % max. This value normally has been reached after one-month-setting of the surface. In case of doubt a moisture measurement has to be made.

P.T.O. !

Asphalt floors need a sufficient load solidity that means it must be a hard-asphalt with at least 90 % aggregates.

Asphalt floors with less aggregates and low-density-asphalt are no suitable surfaces for einZA LawiPur BW.

Uneven surfaces with for example holes or bad spots have to be adjusted with customary 2-component-filling compounds.

Conforming manufacturer details have to be considered.

Adjoining surfaces made of iron and steel, zinc or light metal have to be primed before coating with einZA LawiPur BW after appropriate preparation, depending on stress, with einZA Aqua All-Grund or einZA Lawirostal 2-K-Epoxi-Primer (please ask for technical data sheet no. 007 resp. no. 010 and consider).

New coating on concrete and floor pavements (floor) as well as fibre cement (wall)

Surfaces which have been prepared according to the requirements of „Surface preparation“ will be coated as follows:

Prime coat	saturated application with einZA LawiPur Imprägniergrund. Gloss formation has to be avoided.
Further coatings	after 12 hours at the earliest (depending on temperature and air humidity) but within 24 hours, otherwise an intermediate sanding is necessary.
Intermediate coat	with einZA LawiPur BW, undiluted. Further coatings after 12 hours at the earliest (depending on temperature and air humidity) but within 24 hours, otherwise an intermediate sanding is necessary.
Final coat	with einZA LawiPur BW, undiluted

Garage coatings

Because of the object-specific stress which results from the pressure stress of the weight of the vehicles, the chemical stress from the tires with plasticizer and the moisture from condensate formation below the vehicles the durability of garage coatings also depends on the density class of the floor pavement, the professional and appropriate surface treatment and the layer thickness of the applied top layer.

Therefore, a dry coat thickness of at least 280 - 300 µm for garage coatings is necessary. For the improvement of the complete system and to increase the layer thickness of the floor coating the prime coat based on full-solid-technology has necessarily to be effected with the einZA LawiDox Epoxidharz-Grundierung (please request the technical data sheet no. 228 and consider).

The intermediate and final coat with einZA LawiPur BW has to be applied saturated in a way that at least 250 - 300 ml/m² per layer is reached.

Coating of hard asphalt

One prime coat with einZA LawiPur BW, approx. 10 % diluted with water, on the cleaned, sustainable, grease- and oil-free hard asphalt.

Intermediate coat with einZA LawiPur BW, undiluted, after 12 hours at the earliest (depending on temperature and air humidity) but within 24 hours, otherwise an intermediate sanding is necessary.

Final coat with einZA LawiPur BW, undiluted.

Coating of metal and non-ferrous metal surfaces

Professional and appropriate pre-treated surfaces will be primed with einZA Aqua All-Grund (twice outside) in case of normal stress and in case of high stress with einZA Lawirostal 2-K-Epoxi-Primer (twice outside).

Afterwards an intermediate coat with einZA LawiPur BW and a final coat with einZA LawiPur BW.

Coating of wooden surfaces

The surface has to be sustainable, clean, dry and free of swarf, oil, wax and care products.

Prime coat with einZA LawiPur Imprägniergrund

Intermediate coat with einZA LawiPur BW, undiluted

Final coat with einZA LawiPur BW, undiluted

Anti-skid coatings (applicable on all surfaces)

If anti-skid coatings are required fire-dried pit-iron sand of **0,2 mm grain size** can be dispersed in the still damp intermediate coat of einZA LawiPur BW. Suction cleaning of the surplus of pit-iron sand with an industrial vacuum system after approx. 12 h.

Afterwards two final coats with einZA LawiPur BW, undiluted.

Coating with intersperse of Chips

After coating the chips will be interspersed evenly in the still damp final coat of einzA LawiPur BW.

After 24 hours drying time the surplus of chips will be swept or sucked off with an industrial vacuum system.

Afterwards one additional final coat with einzA LawiPur-Versiegelung.

Coating of PALMTEX Glasgewebe

Apply einzA Gewebekleber evenly with roller and embed the wallpaper in the damp layer of glue.

Only after total drying of the glue a further treatment is possible.

The fitted lengths of wallpaper should be butted at edges and pressed on with a wallpaper spatula.

Overlaps have to be removed with a cutter immediately after pressing on.

In case that lengths of wallpaper are hung overlapped it is advisable to make the double-cut undulated with a cutter.

In case of cant hung overlapped to make a faultless double-cut.

For further details concerning processing please consider technical data sheets of einzA Gewebekleber and einzA PALMTEX Glasgewebe.

After a drying time of at least 24 hours prime with einzA LawiPur BW.

Then one final coat with einzA LawiPur BW.

Renovation coatings

Sustainable, proper adhesive old coatings (check with cross cut test) like for example einzA Lawidur 2-K-PU-Buntlack, einzA Aqua-Kunststoff, einzA Aqua-Floor PU, einzA Flüssig-Kunststoff or as well synthetic resin laquer paints like for example einzA Bunt, have to be cleaned thoroughly, grained and dedusted. In case of doubt a test-coating should be made. Afterwards one prime coat and one final coat with einzA LawiPur BW.

Non sustainable old coatings have to be removed completely and have to be coated like a new coating.

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 !

Notice: Leave containers with residual material of ready-to-use mixture open and let dry completely.

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

VOC limit value enclosure II A (sub-category j) - Wb: max. 140 g/l reg. level II (2010)

VOC-content of einzA (mix) LawiPur BW: < 80 g/l

The details given above have been compiled in accordance with knowledge of state-of-art testing technology and are to be considered as directives. Because of the manifold methods of application and working these are without commitment and give no grounds for any contractual legal relationship and, moreover, do not release the user from testing our products as to their suitability at his own responsibility. In all other respects our general terms of business are valid. **Issue 01/2022**; as a result of which all previous memorandum sheets become invalid.