

TECHNICAL DATA SHEET No.214



LawiDur 2-K-PU-Klarlack

2-component-sealing
silk glossy and high glossy

I. Product

einZA LawiDur 2-K-PU-Klarlack is a high quality, colourless, high-glossy or silky-matt 2-component varnish for all surfaces. Ideal for surfaces in all areas with a high demand of mechanical and chemical resistance. System product as colourless top coat outside for the einZA LawiPen-System.

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| Type of material | 2-component varnish |
| Application purpose | colourless sealing varnish for parquet, wooden stairs, seating, table tops, removable wooden interiors etc., in offices, schools and leisure facilities. Suitable as well for highly stressed, colourless coating for metal surfaces in chemical and petrochemical factories and other industrial plants. After corresponding pre-treatment also usable as transparent sealing for metal surfaces (details please see <i>Applying technique</i> on page 2). |
| Colour shade | colourless |
| Gloss level | high-glossy and silky-matt |
| Specific weight | 1.000 (ready-to-use mixture) |
| Binder basis | combination of polyurethane / acrylic resin |
| Mixing ratio | 7 : 1 weight parts (master batch : hardener) 7.07 : 1 volume parts (master batch : hardener) |
| Package sizes | master batch and hardener: 1 kg net, 3 kg net |

II. Properties and working instructions

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| Light resistance | very good |
| Chemical resistance | resistant to many acids and lye, to fuels, lubricating oil, bore oil, hydraulic oil, salt solutions, sea water, fresh water, cleaning agents, grease, alcohol and many other solvents |
| Scrub resistance / Weather resistance / Adhesion / Elasticity / Impact resistance | exceeds the requirements of the DIN and VOB conditions |
| Special properties | good electric insulation capacity and good ease of decontamination |
| Dilution | einZA LawiDur-Spezialverdünnung |
| Brushing and rolling | undiluted (if necessary add up to max. 5 % thinning agent) |
| Spraying | corresponding to the VOC regulations only permitted in closed units einZA LawiDur-Spezialverdünnung (quantity depends on the type of tool) |
| Drying times (20°C, 65 - 75 % rel. air humidity, 100 µm wet film) | dust-free after approx. 1 ½ hours touch proof after approx. 3 - 4 hours after 7 days of hardening fully stressable |

P.T.O.!

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| Pot life at 20 °C | approx. 6 - 8 hours |
| Spreading rate | approx. 10 m ² with 1 kg of the ready-to-use mixture |
| Recoatible | after drying over night. In case of a multicoat system the next coat should be applied at least after a hardening time of 24 hours in order to achieve a sufficient intermediate adhesion. Otherwise an intermediate sanding is necessary. |
| Processing regulations | Do not process at temperatures below +10 °C and a rel. air humidity over 75 %. Tools, compressed air and surfaces to be coated have to be dry, as humidity may cause deficiencies on the surface. When processing on vertical surfaces pre-spray shortly. |
| Cleaning of tools | with einzA LawiDur-Spezialverdünnung or with einzA Universal-Nitroverdünnung |

III. Coating and/or applying technique

For optimal varnishes and even surfaces einzA LawiDur 2-K-PU-Klarlack should be applied by spraying.

For rolling we recommend to use a concave nitro-stable foam roller whereat a surface structure always has to be expected. Varnish results may be optimized by adding 1 up to max. 5 % einzA LawiDur-Spezialverdünnung in case of spraying or rolling method.

Coating structure for wood:

The wood has to be air dry, clean, free of pollution, oil, grease and other contaminations as otherwise the good adhesion of the coating on the wood will be impaired. Prime coat with einzA LawiDur Imprägnierung, undiluted. Before applying the next coats slightly sand and dedust thoroughly.

Intermediate coat with einzA LawiDur 2-K-PU-Klarlack, diluted up to 5 %.

2 - 3 final coats, depending on the stress, with einzA LawiDur 2-K-PU-Klarlack, undiluted.

Intermediate sanding is recommended between the coatings.

This results into mirror-like finish coatings and additionally improves the adhesion of following coatings.

Coating structure for metal surfaces:

einzA LawiDur 2-K-PU-Klarlack is also suitable for the protection of metallic bright metal surfaces, especially for non-iron metals. Metal surfaces made of zinc, aluminium, copper, brass or galvanised steel to be coated have to be free of grease, clean, dry and pre-treated metallic bright.

Oxidation products have to be grinded thoroughly resp. removed with silicon-free cleaning paste (please see operating instructions). In case of zinc surfaces pre-treatments according to the BFS-Merkblatt Nr. 5 "Anstrich auf Zink und verzinktem Stahl" have to be considered. Cleaning and degreasing with diluted ammonia liquid by adding a small amount of surfactant, for example Pril or similar or with phosphoric acid cleaning agent. Rinse thoroughly with plenty of water. Let dry sufficiently.

On iron and steel surfaces einzA LawiDur 2-K-PU-Klarlack is usable only limited and only inside according to the known engineering rules as the anti-corrosive component is missing.

Apply einzA LawiDur 2-K-PU-Klarlack 2 - 3 times undiluted on the surface to be treated, depending on the stress.

System structure for elastic balcony coatings with intermediate sanding outside

Priming with einzA LawiDox Epoxidharz-Grundierung.

Open sanding of the fresh surface with siliceous sand with the grain-size distribution curve of 0.3/0.8 mm.

Directly afterwards a levelling compound with einzA LawiPen 2-K-PU-Beschichtung by adding approx. 20 - 30 % siliceous sand with the grain-size distribution curve of 0.1/0.3 mm.

For the following coating the surface has to be non-porous.

Coating with a doctor knife of einzA LawiPen 2-K-PU-Beschichtung for example with a toothed strip like Pajarito 48, Storch R2.

After 10 - 20 minutes vent with spiked roller.

Outside the transparent sealing will be effected with einzA LawiDur 2-K-PU-Klarlack (please find further details in the Technical Data Sheet of einzA LawiPen 2-K-PU-Beschichtung)

P.T.O.!

Important notice:

The containers contain exact quantities of master batch and hardener (7:1 weight parts).
Both components - master batch and hardener - have to be mixed thoroughly before processing.
Let the ready-to-use mixture pre-react for approx. 15 min.
Only then add the dilution if necessary.

IV. Security advice and labelling

The product is subject to the Ordinance on Hazardous Substances.
Necessary details are included in the DIN Material Safety Data Sheet regarding CLP regulation (GHS) according to the regulation (EC) no. 1272/2008.
Available at www.einzA.com at any time or to be requested using sdb@einzA.com.
Labelings on the packaging 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 LawiDur 2-K-PU-Klarlack: < 500 g/l

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 02/2021; with this, all previous specification sheets are invalid.