

TECHNICAL DATA SHEET No.046



**PU-Vergütet
Blockfest
Kratzfest**

Aqua-Siegel

Glossy and silky-matt

I. Product

einZA Aqua-Siegel is a water-dilutable, especially abrasion resistant one-component clear varnish for the sealing of wood and parquet floors under normal use. einZA Aqua-Siegel is lightfast and is suitable for glossy and silky-matt coatings of interior woodwork such as doors, furniture etc. einZA Aqua-Siegel is almost odourless; no smell nuisance during processing because of solvent vapours. Environmentally sound because environmentally compatible. einZA Aqua-Siegel can also be used as hard-wearing floor coating for colourless sealings of mineral surfaces inside to receive colour stable and non-yellowing surfaces without self-colouring.

einZA Aqua-Siegel is environmentally sound because of being environmentally compatible. Coatings with einZA Aqua-Siegel are resistant to saliva and sweat according to DIN 53 160 and meet the criteria of EN 71 part 3 (standard for toys). You will find updated certificates on our website.

Type of material	one-component clear varnish for inside
Application	sealing and coating of normally used wood and inlaid floors, wood furniture as well as other interior woodwork as well as mineral surfaces such as concrete or cement floors or fibre cement.
Colour	colourless
Degree of gloss	glossy and silky-matt
Specific weight	appr. 1,04 - 1,05
Binder basis	acrylic-urethane combination
Flash point	not applicable, not combustible
Danger class according to VbF	not applicable
Temperature resistance	up to + 80 °C
Packing sizes	2,5 l - 750 ml - 250 ml

II. Properties and working instructions

Abrasion resistance	very good
Water resistance	very good
Chemical resistance	Resistant to household cleaning agents and alcohol, not resistant to strong alkalines, acids and solvents. Dry off spots immediately.
Adhesion / Elasticity / Impact resistance	fulfills the requirements of the DIN and VOB stipulations
Compatibility	do not mix with other materials
Thinning agent	water
For brushing on	undiluted, processing with brush/flat brush (Orel mix bristle)
For rolling on	undiluted, processing with flaky Moltoprene-roller
Spraying	1,5 mm nozzle, spraying pressure 3 - 4 bar
Airless spraying	undiluted, suitable for piston and diaphragm units
Spreading rate	12 - 16 m ² /l = 60 - 85 ml/m ² , depending on the method of application and absorbance of the wood
Drying times (20 °C, 65 - 75 % rel. air humidity., 60 µm wet film)	after 30 min., dust dry - after 45 min., tack-free after appr. 12 hrs., walkable - completely stable after appr. 1 week

P.T.O.!

Processing

Recoatable by brush	after appr. 4 - 5 hrs.
Resprayable	after appr. 4 - 5 hrs.
Sandable	after appr. 4 - 5 hrs.

Recommended working temperature +15 to +20 °C object and room temperature;
do not process with temperatures below + 10 °C.

Storage with cool and frost-free storage at least one year in an unopened packaging

Cleaning of the tools immediately after use with water

Instructions When applying on large surfaces, make sure there is sufficient ventilation so that humidity can escape.

III. Coating and/or applying technique

einZA Aqua-Siegel is an especially abrasion resistant one-component clear varnish for the sealing of all interior types of wood. einZA Aqua-Siegel is practically odourless and can thus be processed in living quarters without giving off solvent vapours.

Before coating the regulations of the current issue of BFS-Merkblatt no. 20 "Baustellenübliche Prüfungen zur Beurteilung des Untergrundes" have to be considered.

New coating on interior wood surfaces

1. The substrate has to be clean, dry and free from sanding dust, oil, wax and cleaning agents.
2. Sand the substrate and thoroughly remove dust (vacuum).
3. Prime coat with einZA Aqua-Siegel glossy or silky-mat.
4. Intermediate coat with einZA Aqua-Siegel glossy or silky-mat.
5. Carefully sand surfaces and remove dust (vacuum).
6. 1-2 finish coats with einZA Aqua-Siegel glossy or silky-mat.

When applying einZA Aqua-Siegel silky-mat on strongly absorbent wooden substrates, prime with einZA Aqua-Siegel glossy, approx. 10 % diluted with water. Then continue with further coating structure using einZA Aqua-Siegel silky-mat.

Renovation coating on lacquered wooden surfaces

1. Thoroughly sand old, stable coat and completely remove dust as well as wax and remainders of grease and cleaning agents.
2. 1-2 coats with einZA Aqua-Siegel glänzend oder seidenmatt (glossy or silky-mat).

New coating of mineral surfaces inside (concrete and cement floors and fibre cement)

The surface has to be clean and stable, fatty and oleaginous surfaces have to be cleaned with a special cleaner, for example P 3 or similar. Please roughen very even surfaces mechanically. Loose and separative acting substances on the surface like laitances or sinter layers have to be completely removed mechanically.

Afterwards please dedust surfaces thoroughly. Concrete and floor pavements have to be set at least for 1 month. Make sure that water can run off easily (no standing water).

- Prime coat with einZA Aqua-Siegel glossy or silk mat depending on the absorbency of the surface diluted up to 10 % with water.
- Interior coat with einZA Aqua-Siegel glossy or silk mat, undiluted.
- Sand and dedust (vacuum cleaner) surfaces thoroughly.
- 1 - 2 final coats with einZA Aqua-Siegel glossy or silk mat, undiluted.

Important:

Do not use einZA Aqua-Siegel on substrates being in contact with PVC sealings and on soft PVC. When using sealing profiles, do only choose sealings that are suitable for water-tinnable acrylic lacquers, as e.g. TCF (tricresyl phosphate) - or AC (acrylic) sealing profiles.

P.T.O.!

Beech and ash-tree are characterized by a very high water absorption. Thus, when applying water-thinnable coating systems, it may result in swelling and shrinking movements and cause a fissure in the wood. Therefore, before applying einZA Aqua-Siegel on these types of wood, a trial coat is necessary.

In case of doubt, beech or ash-tree have to be coated with einZA Plastik-Siegel (one-component polyurethane varnish, technical specification sheet No. 043) or with einZA Lawidur 2-K-PU-Klarlack (clear varnish, technical specification sheet No. 126).

Even when processing lacquers being low on pollutants the usual safety measures have to be observed.

Water-dilutable 1-component floor coatings are not suitable for the coating of wet areas or surfaces with the risk of standing water. In this case we recommend to apply einZA Lawidur 2-K-PU-Klarlack.

III. Security advice and labelling

GIS code (product code)	M-KH01
Flash point	not applicable, non-inflammable
Hazardous class to VbF	not applicable

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 to 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 e) - Wb: max. 130 g/l reg. level II (2010)

VOC-content of einZA Aqua-Siegel: <80 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 06/2019; with this, all previous specification sheets are invalid.