

TECHNICAL DATA SHEET No.276



Aqua-PU Seidenmatt

colour matching with **einZAmix**

I. Product

Water-dilutable, well-filling premium varnish for silk-matt high-quality varnishings, excellent workable like „classic“ enamel varnishes but user-friendly because being odourless. For perfect surfaces with highest quality standards with an exceptional flow out with a porcelainized finish for high-quality varnishing results when brushing or rolling on. einZA Aqua-PU-Seidenmatt does not show glossy areas, is resistant to yellowing and colour stable and can be cleaned easily with common household cleaning agents. einZA Aqua-PU-Seidenmatt is blockfast and the optimized values for abrasive hardness and scratch hardness ensure a high usability. Coatings with einZA Aqua-PU-Seidenmatt are saliva and sweat resistant according to EN 71 part 3 (safety of toys).

Type of material	water-dilutable, well-filling premium varnish for high-quality varnishings	
Application purpose	for silk-matt varnishes on wooden, metal and plastic surfaces (rigid PVC and coatable duromers) inside, also for varnishings on hot water radiators and pipes.	
Colour shades	white (standard) as well as a range of colour shades obtained by using einZA mix W	
Gloss level	elegant, uniform silky matt effect	
Specific weight	approx. 1,200 - 1,380 g/cm ³ depending on the colour shade	
Binder basis	high-quality urethane combination, water-dilutable	
Product group to VdL-R01	dispersion varnish	
Pigment basis	lightfast colour pigments and matting agents	
Temperature resistant	up to 120 °C, dry (inside)	
Package sizes	standard (white)	2,5 l - 750 ml
	einZA mix (basis 1 and 3)	3 l - 1 l - 500 ml

II. Properties and working instructions

Light resistance	very good with all colour shades and in all colour shade brightenings
Chemical resistance	resistant to household cleaning agents, resistant to saponification
Adhesion / Elasticity / Scrub resistance	fulfills the requirements of DIN and VOB conditions
Note	In case of intensive and dark colour shades a temporary pigment abrasion on the coating surface may occur. For silk mat varnish paint systems this confirms to the state of art and is no reason for complaint.
Mixing	with one another in any ratio, do not mix with other products.
Dilution	water
Brushing and rolling	undiluted
Spraying (airless)	for processing by airless spraying we recommend einZA mix Samtacrly Sprayfinish, our odourless airless quality on acrylic PU basis.

P.T.O. !

Drying times (20 °C, 65 - 75% rel. air humidity, 120 µm wet film)

touch proof after approx. 1 - 2 hours; with cool and damp weather conditions the drying time will increase. Do not process at temperatures below + 8 °C and a rel. air humidity higher than 85 %.

Spreading rate

approx. 8,5 m²/l = approx.. 120 ml/m²

Processing

Recoatible

after approx. 3 - 4 hours

Tools

use acrylic brushes or foam rollers suitable and recommended for water-based acrylic PU varnishes with very fine foam structure (please follow manufacturer's instructions).

Cleaning of tools

immediately after use with water

Storage

protected against frost, close open containers tight

Disposal

Dispose of containers with rest material at special waste collection points for old varnishes. For recycling only use containers being completely empty.

III. Coating and/or applying technique

einZA Aqua-PU Seidenmatt is easy to apply, has an excellent flow out on standing and flat areas, has excellent adhesion and coverage as well as good edge covering, dries streakless and can be cleaned with common household cleaning agents without getting glossy. einZA Aqua-PU Seidenmatt is suitable for high quality varnishing on pre-treated wooden, metal and plastic surfaces.

Always apply einZA Aqua-PU Seidenmatt saturated and high built and smooth out in one direction to ensure an even flooding of the matting agent.

Preparation of surfaces:

For **wooden surfaces** the regulations of the current version of the BFS data sheet no. 20 "Baustellenübliche Prüfungen zur Beurteilung des Untergrundes" have to be considered.

▶▶ Wooden elements have to be dry, clean, free of wax and grease. Grinding of all wooden elements completely in the direction of fibre, clean and dedust thoroughly including all extra work.

Basis for coatings on **iron and steel** is the pretreatment corresponding to DIN EN ISO 12944 part 4.

▶▶ Rust on steel and iron has to be removed professional and appropriate in a way that the surface to be treated is free of mill scale and scales, clean, dry and free of grease. Surface preparation factor: SA 1 or SA 2 ½.

Preparatory work on **zinc and galvanized surfaces** has to be in accordance to the BFS data sheet no. 5 "Beschichtungen auf Zink und verzinktem Stahl".

▶▶ Cleaning and degreasing of the surface with leach, diluted liquid ammonia adding a little bit of surfactant (for example Pril or similar) or a cleaning agent suitable for galvanized surfaces, for example einZA Aktivreiniger.

Wet grinding of the entire area with nylon fabric (for example Scotch Brite) including all necessary extra work and protective measures. Rinse thoroughly with plenty of clear water.

Aluminium surfaces have to be pretreated according to the BFS data sheet no. 6 "Beschichtungen auf Bauteilen aus Aluminium".

▶▶ Cleaning and degreasing of the surface with a cleaning agent suitable for aluminium surfaces, for example einZA Aktivreiniger. Wet grinding of the entire area with nylon fabric (for example Scotch Brite) including all necessary extra work and protective measures. Rinse thoroughly with plenty of clear water.

Basis for **plastic surfaces** is the BFS data sheet no. 22 "Beschichtungen auf Kunststoff im Hochbau".

▶▶ Cleaning and degreasing of the surface with a cleaning agent suitable for plastic surfaces, for example einZA Aktivreiniger. Wet grinding of the entire area with nylon fabric (for example Scotch Brite) including all extra work and protective measures. Rinse thoroughly with plenty of clear water.

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System structure:

Coating on wooden surfaces inside:

The wooden elements have to be dry, clean and free of wax and grease.

Grinding of all wooden elements completely in the direction of fibre, clean and dedust thoroughly.

Poring-off and stopping of wooden elements inside with Palmcolor Schnellspachtel till the surface is even and smooth including all necessary extra work.

Previous coat (prime coating) with Acryl-PU-Vorlack, einZA Aquamatt.

1 to 2 final coating(s) depending on the consistency of the surface with einZA Aqua-PU Seidenmatt.

Coating on woods rich in active substances inside:

Priming of types of wood with colour changing wood components 1 to 2 times, depending on the surface, with einZA Aqua-Isogrund weiß undiluted.

For water-based isolationprimer a drying time of 24 hours before rework has to be observed.

1 to 2 final coating(s) depending on the consistency of the surface with einZA Aqua-PU Seidenmatt.

Coating on metal and plastic surfaces:

Pretreatment regarding above standards and regulations.

Prime coating (if necessary) with einZA Aqua All-Grund or with einZA Lawinit 2-K-Haftprimer.

1 to 2 final coating(s) depending on the consistency of the surface with einZA Aqua-PU Seidenmatt.

Renovation coatings:

Stable, perfect adhesive old coatings (to be tested with crosshatch adhesion test) have to be cleaned, sanded and dedusted thoroughly. The regulations of the BFS data sheet no. 20 "Baustellenübliche Prüfungen zur Beurteilung des Untergrundes" have to be considered.

In case of doubt a trial coating should be made.

Then (if necessary) the prior lacquering (prime coating) with einZA Aquamatt will follow.

1 to 2 final coating(s) depending on the consistency of the surface with einZA Aqua-PU Seidenmatt.

Important notice:

Do not coat soft PVC and surfaces in contact to PVC seals with einZA Aqua-PU Seidenmatt.

When using sealing profiles do only use seals being suitable for water dilutable acrylic varnishes, like for example TKF- or AC-sealing profiles.

IV. Security advice and labelling

Gis code (product code)	BSW20
Flash point	not applicable, non-inflammable

The product is subject to the Ordinance on Hazardous Substances.

Necessary details are included in the 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.

Labelling 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 d) - Wb: max. 130 g/l reg. level II (2010)

VOC-content of einZA (mix) Aqua-PU Seidenmatt: < 50 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 09/2019;** with this, all previous specification sheets are invalid.