

TECHNICAL DATA SHEET No.033



PU-finished
Blockfast
Scratch-resistant

Samtacryl Seidenglanzlack



Tintable with **einZAmix**

I. Material

einZA Samtacryl Seidenglanzlack is a water-dilutable, weather-resistant, silk gloss varnish paint for blockfast coatings with scratch resistant surface on wood, metal, hard PVC and mineral surfaces for indoor and outdoor application as well as for hot water radiators up to 120°C. einZA Samtacryl Seidenglanzlack is fast drying, formaldehyde-free, with low odour and easy to work. The hardened coating is diffusible, permanently elastic, resistant to yellowing and easy to clean with usual household detergents. Environmentally sound because of low content of hazardous substances. einZA Samtacryl Seidenglanzlack coatings are saliva and sweat resistant and meet the criteria of the EN 71 part 3 (Safety of Toys).

Type of material	water-dilutable silk gloss varnish for outdoor and indoor application	
Application purpose	silk glossy, weather-resistant coatings for wood, metal, hard PVC and mineral surfaces as well as hot water radiators and pipes. Scrub-resistant coating for heavily stressed indoor surfaces.	
Colour shading	white and selected mixed colour shades according to colour chart as well as a large number of colour shades by means of einZA mix W with basic colours 1, 2 and 3.	
Colour shading (metallic)	tintable with einZA mix W with basic colour ME in 38 decorative and brilliant metallic effect colour shades corresponding the RAL Effect System	
Degree of gloss	silk glossy	
Specific weight	approx. 1.1 - 1.2 g/cm ³ depending on colour shade	
Binder basis	PU-finished acrylate, water-dilutable	
Product group to VdL-RO1:	dispersion varnish	
Pigment basis	lightfast, weather resistant colour pigments (aluminium paste) and matting agent	
Temperature resistance	up to 120 °C, dry (indoor areas)	
Package sizes	standard (white and coloured)	2.5 l - 750 ml - 250 ml
	einZA mix (basis 1, 2 and 3)	3 l - 1 l - 500 ml
	einZA mix Metallic (basis ME)	3 l - 1 l

II. Properties and working instructions

Light resistance	very good in all colour shades outdoor and indoor, also in case of any colour shade brightening
Chemical resistance	resistant to industrial atmospheres, household detergents, resistant to saponification
Weather-resistance/Adhesion/Elasticity/Scrub resistance	fulfils the requirements of the DIN and VOB conditions.
Note	In case of intensive and dark colours of metallic colour shades from basis ME mechanical stress can cause temporary pigment abrasion on the coating surface. The functionality of the coating is not affected, only the visual appearance. This represents state-of-the-art technology and gives no cause for complaint.

P.T.O.!

Shading	mixable with each other in any ratio, do not mix with other products
Dilution	water
For brushing and rolling	undiluted
Airless spraying	undiluted, suitable for piston and diaphragm equipment (except basis ME)
Drying times (20 °C, 65-75% rel. air humidity, 90 µm wet film)	tack-free after approx. 1-2 hours; the drying time is extended in cool and damp weather. Do not work at temperatures under +8 °C and a rel. air humidity over 85 %.
Yield	10 - 11 m ² /l = 90 - 100 ml/m ²

Processing

Recoat/Resprayable	approx. after 3 - 4 hours
Working instructions for einzA Samtacryl Metallic (basis ME)	For best varnishings with very homogeneous and even surfaces einzA Samtacryl Seidenglanzlack Metallic should be processed by hvlp spraying method. In case of brushing or rolling on please process material continuously in one direction. For brushing use smooth flat brush, process quickly and continuously, lugs have to be avoided. For rolling we recommend usage of concave rounded foamed material rollers. Slight shadings and streakiness arise from the painting process and can not to be avoided in case of application by brushing or rolling on of varnishes with ascending aluminium pigments.
Tools	acrylic brush with Orel mix bristles, flocked Moltopren roller (concave)
Cleaning of tools	immediately after use with water
Storage	protected against frost, close opened container well
Disposal instructions	dispose of this material at special waste collection points for old varnishes. For recycling only use containers being completely empty.

Physical data

(standard / white)	water vapour permeability (diffusion equivalent of air layer thickness S _d [H ₂ O]): < 0.16 m - class V1
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Processing guidelines

During cold and damp seasons water dilutable components from the not yet dried coating could dissolve out relative shortly after application due to the interaction of high air humidity, mist or rain and temperature reductions (especially during cool and wet evening and morning hours). These are for example tensides, emulsifiers, protective colloids or other additives which are required in the coating to gain certain quality characteristics. If such stains occur, which mostly appear as sticky, glossy spots, the areas should not be reworked directly. The water dilutable stains will be washed off automatically by further humidity stress (for example after several heavy rainfalls). If a direct rework will be made the strains have to be washed off thoroughly with water before a further coating will be applied.

This phenomenon which only occurs in case of unfavorable weather conditions is state-of-the-art and unavoidable. It is a temporary visual defect which has no influence on the protective function of the coating.

III. Coating and/or applying technique

einzA Samtacryl Seidenglanzlack is suitable for silk gloss coatings on many surfaces such as doors and woodwork, wood panelling, textile and structured wallpapers, outdoor woodwork, hot galvanised iron, aluminium, fibrated cement, concrete and plaster surfaces as well as hot water radiators and pipes.

The dried and cured coating film of einzA (mix) Samtacryl Seidenglanzlack is saliva and sweat resistant in accordance with DIN 53 160 resp. DIN EN 71 part 3.

A. Wooden surfaces (not accurate to measurement)

1. Impregnation with einzA Bläueschutz "W" (only for softwood lumber and coniferous wood in outdoor applications).
2. Prime coat with einzA Aquamatt.
3. Intermediate and final coating with einzA Samtacryl Seidenglanzlack, undiluted.

P.T.O.!

B. Wooden surfaces (accurate to measurement, such as windows and doors)

1. Impregnation with einZA Bläueschutz "W" (only for softwood lumber and coniferous wood in outdoor applications).
2. Prime coating with einZA Aquamatt.
3. Intermediate and final coating with einZA Samtacryl Seidenglanzlack, undiluted.

Cementing should be carried out with permanent plastic and permanent elastic sealing materials in accordance with the table to determine the stress groups for glazing windows from the Institut für Fenstertechnik e.V., Rosenheim, Germany. Contact surfaces to PVC seals should be coated with einZA Seidenmatt to avoid any possible sticking.

C. Wood with high infiltrate

Types of wood with wood stain infiltrate and pressure impregnated wood to be primed undiluted, depending on the surface, 1-2 times with einZA Aqua-Isogrund weiß.

In case of waterbased isolation priming a drying time of 24 hours has to be kept before further treatment.

Intermediate and final coating with einZA Samtacryl Seidenglanzlack undiluted.

D. Iron, steel, galvanised iron, light metal and hard PVC

Remove rust and degrease from iron and steel and prime with einZA Korral-Primer or einZA Aqua All-Grund once (indoors), resp. twice (outdoors). Galvanised iron and light metal to be degreased thoroughly with ammonia and wetting agent (Pril or similar) and wash well with clear water afterwards. Remove oxidation coats mechanically. Degrease hard PVC, sand down and prime with einZA Aqua All-Grund.

Surfaces prepared in this way to be coated twice with einZA Samtacryl Seidenglanzlack, undiluted.

E. Radiators and pipes

Radiators to be coated with einZA Samtacryl Seidenglanzlack must not be warmer than 30 °C.

Radiators primed in accordance with DIN 55 900 are to be cleaned, faulty patches derusted and primed with einZA Aqua All-Grund. Apply two coatings with einZA Samtacryl Seidenglanzlack undiluted.

Old, already painted radiators are to be well sanded down before coating with one or two coats of einZA Samtacryl Seidenglanzlack.

Use einZA (mix) Aquamatt as heavy filling precoat paint for prime coating in case of strongly yellowed or rough surfaces.

F. Fibrated cement, concrete and plaster surfaces

Sand plasters are to be strengthened with einZA Aqua-Tiefgrund. Avoid gloss development. Absorptive mineral surfaces to be wetted with water.

1. Prime coat with einZA Aquamatt or einZA Samtacryl Seidenglanzlack, diluted with water up to 10 %.
2. One or two final coats with einZA Samtacryl Seidenglanzlack, undiluted.

G. Old coatings

Completely remove peeling or cracked old paint finishes. Test intact old coatings for stability and adhesion, firmly adhering intact varnish coatings to be ground down and dust removed, brush down and remove dust from dispersion coatings.

1. Prime coat with einZA Aquamatt.
2. Intermediate and final coat with einZA Samtacryl Seidenglanzlack, undiluted.

IV. Security advice and labelling

GIS code (product code)

M-LW01

Flash point

not applicable as not flammable

P.T.O.!

The product is subject to the Ordinance on Hazardous Substance.

All necessary indications are contained in the Material Data Sheet regarding CLP Regulation (GHS) regarding Regulation (EC) 1272/2008. Available at www.einzA.com at any time or to be requested using sdb@einzA.com.

Labellings 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) Samtacryl: < 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. **Issue 07/2021**; with this, all previous specification sheets are invalid.