

TECHNICAL DATA SHEET No.350

silicon Fassadenfarbe



colour matching with **einZAmix**



Type of material	silicone facade paint, matt, water-dilutable, weatherproof according to VOB DIN 18 363.
Application purpose	<ol style="list-style-type: none"> 1. For water-repellent (hydrophobic), highly water vapour permeable coatings outside on unpainted, mineral surfaces. 2. For renovation coatings on sustainable silicone or silicate paints, matt emulsion paints (not on crack-filling coating systems) and on synthetic resin plaster coatings.
Colour shading	white as well as a range of colour shades obtained by using einZA mix paint mixing system
Density	approx. 1.53 (standard white)
Binder basis	silicone resin emulsion
Properties	within the system water-repellent, highly water vapour permeable, alkali-resistant, dirt-repellent, non-ageing. Remains excellent clean, slightly chalking without drain marks. With formula H against dirt and virescence on facades.
Consumption	150 - 180 ml/m ² Consumption depends on the surface and has to be determined by a trail coat at the object.
Surfaces	<p>einZA silicon Fassadenfarbe can be used on all mineral surfaces (plaster, concrete, brickwork, fibre cement, especially also on sand-lime brick) which are...</p> <ol style="list-style-type: none"> a) unpainted b) already painted with silicone paint, silicate paint, lime-cement paint, matt emulsion paints (not on crack-filling coating systems) or coated with synthetic resin plaster and have been pre-treated workmanlike as customary c) coated with oil, varnish paints or emulsion paints and where these old coatings have been removed thoroughly
Preparation of surfaces	<p>concerning a) and c)</p> <p>The surfaces must be cleaned from dirt and loose particles and make hydrophobic by saturated impregnation with einZA silicon Imprägnierung, diluted up to 1:1 with petroleum spirit. In case of surfaces which show insufficient mechanical resistance (for example sanding) after this treatment an hardening priming with einZA silicon Grundfestiger is necessary.</p>

P.T.O.

concerning b)

Old, sustainable coatings resp. synthetic resin plastered surfaces must be cleaned dry or wet.

The surface is solid, sustainable and not chalky:

The use of einzA silicon Grundfestiger can be omitted.

The coating is solid, well-adherent but chalky:

Binding of the chalky layer with diluted einzA silicon Grundfestiger. If the chalky layer can be removed completely with a high pressure hot water device the application of einzA silicon Grundfestiger can be omitted.

Microporous, sound silicate coatings can be impregnated with einzA silicon Imprägnierung to improve the water-repellent effect. For the hardening and hydrophobicity of mineral surfaces we recommend the use of einzA Hydrogrund undiluted, in case of the risk of a gloss formation diluted 1:1 with water.

For the repair of cracks einzA silicon Fassadenfarbe can be mixed with siliceous sand 63-250 μ up to spatula compatibility (1 weight part einzA silicon Fassadenfarbe mixed with 1 ½ weight parts siliceous sand).

Coating structure

On impregnated and eventually also primed surface:

One intermediate coat with einzA silicon Fassadenfarbe diluted up to max. 10 % with water, one final coat with einzA silicon Fassadenfarbe undiluted or diluted up to 5 % with water.

Applying technique

einzA silicon Fassadenfarbe is ready-to-use. Application by rolling, brushing or spraying.

Physical data

(standard / colour white)

vapour diffusion resistance factor, wet-on-wet method

(rel. humidity from 100 - 50 %)

$\mu = 290$

vapour resistance reg. DIN 52615:

$sd = 0.068 \text{ m}$

Applied formula: $sd = \mu s \text{ (m)}$

Condition:

600 g/m² applied quantity = 0.000233 dry coat thickness (s), expressed in metre m

water absorption coefficient reg. DIN 52617:

$w = 0.050 \text{ kg/m}^2 \text{ h}^{0.5}$

capillary water absorption reg. DIN 52617:

$W_{24} = 0.300 \text{ kg/m}^2 \text{ 24h}$

Further notices

The einzA silicon System (impregnation, intermediate and final coat) is besides its general wide field of application especially suitable for monument protection where effective weather resistance = truly water-repellence and also the maximum maintenance of the surfaces' own water vapour permeability is very important. With these high requirements einzA silicon Fassadenfarbe as a silicone paint is superior to all other products with a different binder basis as two important characteristics are associated:

1. Weather protection and rain protection
2. Very low resistance to water vapour diffusion

Processing temperature

Air and object temperature not below +5 °C.

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 stains 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.

P.T.O.

Tinting	tinting with the einZA mix paint mixing system
Cleaning of tools	immediately after use with water
Storage	cool but protected against frost in closed original containers
Disposal	for recycling only use containers being completely empty
Package sizes	standard 12.5 l einZA mix 2 l - 6 l - 12.5 l
Notice	Opened containers or diluted material has to be used at short notice ! Do not store opened containers for a long time as the material contains preservatives being environmentally sound.

Security advice and labelling

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 g)

Wb: max. 30 g/l reg. level II (2010)

VOC-content of inZA (mix) silicon Fassadenfarbe: < 30 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 09.2020; with this, all previous specification sheets are invalid.