

TECHNICAL DATA SHEET No. 312

mineralit Fassadenfarbe



Type of material	ready-to-use dispersion silicate paint, weatherproof according to VOB DIN 18 363, para. 2.4.1
Application purpose	for weatherproof, water-repellent (hydrophobic), highly vapour permeable coatings outside on mineral surfaces
Test number	FP-20a / 1986 - Fraunhofer-Institut für Bauphysik. Director of the institute: Prof. Dr.-Ing. habil. Karl A. Gertis - Officially regarded testing institute Determination of the water vapour permeability according to DIN 52 615 and of the capillary water absorption according to DIN 52 617/E.
Colour shading	White as well as a range of colour shades obtained by using einZA mix paint mixing system. All colour shades with highest colour stability: FB-code A1 (classification regarding to the BFS data sheet no. 26 „Farbveränderung von Beschichtungen im Außenbereich“: binders of class A and pigments of group 1).
Notice	Intensive colour shades may dry different or even cloudy because of various weather and temperature conditions. This is no technical-functional defect in case of mineral resp. siliceous systems, is state-of-the-art and is not to be objected.
Density	approx. 1,620 (standard white)
Binder basis	potassium silicate with plastic dispersion stabilizer. According to DIN 18 363, para. 2.4.1 dispersion silicate paints may contain organic components up to 5 % in weight related to the total amount of paint material. einZA mineralit Fassadenfarbe with formula H contains 3.6 % by weight.
Fire behaviour	A2 - s1, d0 corresponding to DIN EN 13 501-1 (non-inflammable)
Properties	there is no usual film development but a silicate grid forms with the collaboration of air humidity and carbon dioxide in the air. This remains air and water vapour permeable, although achieves a certain hardness. The silicate grid has similar expansion characteristics like the mineral surface so that no tension occurs under the stress of heat or cold. einZA mineralit Fassadenfarbe is resistant against acid rain because of the use of a special filler combination (industrial resistant). einZA mineralit Fassadenfarbe is water-repellent because of formula H, rainproof and consequently keeps the brickwork dry. The capillary water absorption is extremely low. The film reaction given is without tension and free of cracks even in case of thicker layers. With formula H against dirt and virescence on facades.

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Consumption	<p>approx. 150 - 200 ml/m² per coating on even surfaces.</p> <p>Consumption depends on the surface and has to be determined by a trial coat at the object.</p>
Surfaces	<p>suitable for all mineral surfaces like uncoated new or old plaster surfaces outside of the mortar groups I, II and III, furthermore concrete and frost resistant sand-lime bricks as well as renovation coat on old coatings based on silicate, mineral paints, lime and cement.</p>
Preparation of surfaces	<p>the surfaces have to be clean, stable and dry.</p> <p>To correct cracks einzA mineralit Fassadenfarbe can be filled with siliceous sand up to spatula compatibility. The surfaces smoothed have to be primed afterwards.</p> <p><i>Unpainted, weak absorbing surfaces:</i></p> <p>One prime coat with a mixture of einzA mineralit Grundiermittel, einzA mineralit Fassadenfarbe and water in equal shares. During processing an occasionally stirring is necessary to avoid settlement.</p> <p><i>Old, unpainted surfaces and highly absorbing new plaster surfaces:</i></p> <p>One prime coat with einzA mineralit Grundiermittel and water 1:1.</p> <p><i>Highly absorbing old plasters and frost resistant, unpainted sand-lime bricks:</i></p> <p>Same ratio as before but apply twice wet-in-wet.</p> <p><i>Old mineral surfaces:</i></p> <p>One saturated prime coat with einzA mineralit Grundiermittel undiluted or if necessary einzA mineralit Grundiermittel and water 1:1.</p>
Coating structure	<p><i>Unpainted, weak absorbing surfaces:</i></p> <p>Intermediate coat is not necessary. Final coat undiluted or if necessary mixture of einzA mineralit Grundiermittel and water 1:1 up to 10 %.</p> <p><i>Old, unpainted surfaces and highly absorbing new plaster surfaces:</i></p> <p>Intermediate coat with einzA mineralit Fassadenfarbe undiluted or if necessary mixture of einzA mineralit Grundiermittel and water 1:1 up to 10 %.</p> <p><i>Alternative:</i></p> <p>einzA mineralit Streichfüller undiluted or mixture (10 - 20 %) with einzA mineralit Fassadenfarbe. Final coat undiluted or if necessary mixture of einzA mineralit Grundiermittel and water 1:1 up to 10 %.</p> <p><i>Highly absorbing old plasters and frost resistant, unpainted sand-lime bricks:</i></p> <p>Intermediate coat with einzA mineralit Fassadenfarbe undiluted or if necessary mixture of einzA mineralit Grundiermittel and water 1:1 up to 10 %.</p> <p><i>Alternative:</i></p> <p>einzA mineralit Fassadenfarbe undiluted or mixture (20 - 30 %) with einzA mineralit Streichfüller. Final coat undiluted or if necessary mixture of einzA mineralit Grundiermittel and water 1:1 up to 10 %.</p> <p><i>Old, mineral surfaces:</i></p> <p>Intermediate coat with einzA mineralit Fassadenfarbe undiluted or if necessary mixture of einzA mineralit Grundiermittel and water 1:1 up to 10 %.</p> <p><i>Alternative:</i></p> <p>einzA mineralit Fassadenfarbe undiluted or mixture (20 - 30 %) with einzA mineralit Streichfüller. Final coat undiluted or if necessary mixture of einzA mineralit Grundiermittel and water 1:1 up to 10 %.</p>
Applying technique	<p>einzA mineralit Fassadenfarbe is ready-to-use, possibly add up to 10 % einzA mineralit Grundiermittel mixed with water 1:1 to regulate viscosity. Application by brushing or rolling (no airless spraying).</p>
Precaution	<p>Connecting surfaces like glass, clinker, natural stone have to be covered. Splatters have to be removed still being wet. Eyes and sensitive skin have to be protected against splatters, if necessary clean with plenty of water.</p>

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Physical data (standard / colour: white)	vapour diffusion resistance factor, wet-on-wet method (rel. humidity from 100 - 50 %): $\mu = 50$ Layer thickness equivalent to diffusion air regarding to DIN 52 615 / DIN EN 7783-2: $sd = \leq 0,01 \text{ m}$ Water vapour diffusion current density (V) regarding to DIN 7783-2: V-value = $> 150 \text{ g}/(\text{m}^2 \cdot \text{d})$ corresponds to class V ₁ , high Water absorption coefficient (w) regarding to DIN EN ISO 1062-3: $w = 0,060 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0,5})$ corresponds to class W ₃ , low, $\leq 0,1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0,5})$ $W_{24} = 0,300 \text{ kg}/(\text{m}^2 \cdot \text{h}^{24})$
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 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.
Processing instructions	Basically repair work should always be carried out on the entire area and not only partially as in case of silicate and sol silicate paints surfaces may show more or less strong shade differences, depending on the object situation. This corresponds to the recognized rules of technology and cannot be avoided. Please find details in the BFS leaflet no. 25.
Drying time	between coatings consider a drying time of 12 hours at least (minimum 24 hours to prime coating).
Tinting	with Hacolith Volltonfarben or tinted with the einZA mix paint mixing system
Cleaning of tools	immediately after use with water
Storage	cool but protected against frost in closed original plastic 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 for a long time opened containers as the material contains preservatives being ecologically beneficial.
VOC-content regarding enclosure II of the VOC guideline 2004/42/EG	VOC limit value enclosure II A (sub-category c) Wb: max. 40 g/l reg. level II (2010) VOC-content of einZA mineralit Fassadenfarbe: < 30 g/l

P.T.O.!

Security advice and labelling

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 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 !

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 01/2021; with this, all previous specification sheets are invalid.