

TECHNICAL DATA SHEET No.086



Dachbeschichtung

water-dilutable

I. Product

einZA Dachbeschichtung is a special paint, easy to apply, water dilutable and suitable for the application of sloped concrete or clay-tile roofs and fibre cement surfaces. It is UV-resistant, resistant against pollution, fading, free of toxic heavy metals and carcinogenic agents.

Type of material	water-dilutable paint for roof renovations.
Application	special paint for the renovation of sloped roofs of concrete roof tiles and elements of fibrated cement.
Colours	standard colours: brick-red, dark brown, anthracite and reddish-brown special colours: on request
Degree of gloss	flat
Specific weight	app. 1,4 g/cm ³
Binder agent	highly weather-resistant, pure-acrylic dispersion
Pigment basis	light-resistant, high-quality oxide pigments
Packing size	12,5 l

II. Properties and processing instructions

Weather resistance	excellent weather resistance in inland-, industrial- and sea climates.
Mechanical attributes	good mechanical stressability because it ties strongly to the substrate and has a highly toughened quality.
Water resistance	highly water-repellent
Resistance to acids, alkaline solutions, algae	Very good resistance to acids (acid rain) and alkali (alkalinity of the substrate), good protection against algae and other growth through- the optimal set-up of the coating.
Temperature resistance	highly resistant to natural heat and cold, therefore also extremely resistant to frost and condensation
Permeability to water vapour	good
Abrasion resistance	highly resistant to abrasion, therefore little erosion and hardly any reduction of the protective coat
Thinner	water
Spreading rate	einZA Dachbeschichtung as a prime coat: 40 (Vol.) %, diluted with water app. 150-180 ml/m ² einZA Dachbeschichtung as final coat: app. 200 ml/m ² , 30 (Vol.) % diluted with water. roofs of fibrated cement with an absorbing and porous surface need to be pretreated with einZA Dachgrundierung, app. 120-240 ml/m ² (according to the absorbency)
Drying times (20 °C, 65 - 75% rel. air/h umidity, 60 µm wet film)	after app. 4 hours dry to touch. After the evaporation of the water, the coat is resistant to rain and stable enough to that one can step on it.

P.T.O.

For brushing and rolling	Because of the shape of the surfaces and to achieve an even coating it is best to apply the product by airless-spraying.
Application by airless-spraying	suited for piston and diaphragm units (very little abrasion)
Spray pressure	app. 100 - 150 bar, 2000 - 3000 psi.
Nozzle size	0,017 - 0,023 inch

Application

Re-coatable	after app. 4 hours with excellent drying conditions (20°C, 60% rel. air/h umidity); with low temperatures and/or higher air humidity the drying time is prolonged. If in doubt allow drying over night.
Ambient conditions	Do not apply with temperatures below 5°C (object and air); work only with an air humidity of max. 80%. If frost or rain are expected stop the working process. Do not work under strong sun or on heated surfaces (over 40° C).
Cleaning of tools	immediately after use with water Remove dried paint with einzA Universal-Nitroverdünnung
Storage	store in frost free area; close opened containers well. Do not expose to direct sunlight for a long time

III. Coating and/or applying technique

Every roof covering has a specific feature and function.

Due to environmental influences like acid rain, extreme sunlight and dust deposits the required provisions for a healthy finish are being weakened or get lost altogether, resulting in weathering of the surface, erosion and a high water absorption, algae, moss and lichen may grow. The composition of einzA Dachbeschichtung is especially designed to fit these circumstances.

As a precondition for a long-lasting finish the surface has to be dry, clean, sound and free of growth and environmental or organic impurities. High pressure cleaning is recommended.

In case of grease and oily contamination high pressure cleaning with hot steam should be used.

Do not use a dry method of cleaning fibre-cement roof surfaces to avoid contamination of the air with fibre particles.

Collect the wet cleaning residue and dispose of it correctly.

Ask for proper disposal instructions at the local communal offices.

The cleaning is to be carried out in the direction of the flow and with a distance of appr. 10 cm to the surface.

When all weathered particles and other residues are eliminated and a stable and sound, dry surface has been achieved work can commence.

Badly weathered fibre-cement surfaces should be treated twice with einzA Dachgrundierung (gloss formation should be avoided).

The surface should basically be prepared resp. primed once with einzA Dachbeschichtung 40 % diluted with water.

After at least 3 hours of standby time the top coat with einzA Dachbeschichtung diluted approx. 20 % with water can be applied, depending on the absorbency of the surface and drying conditions.

Choice of the prime coats applicable:

	<u>Adobe</u>	<u>fibrated cement</u>	<u>concrete roofing tiles</u>
einzA Dachbeschichtung			
40 % diluted with water	x		x
einzA Dachgrundierung		x	
diluted up to app. 1:1 with einzA Spezialverdünnung for roof coatings			

General safety instructions:

einzA Dachbeschichtung contains algicide and fungicide substances to protect the substrates from residues of alga, moss and lichen. Therefore do not use rain water that has been running down these surfaces for app. 1 year to water plants or for fish ponds. The applying conditions vary very much. Therefore applicers have the duty to create a test surface to find out the best working conditions.

P.T.O.

IV. Security advice and labelling

Flash point	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 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 according to appendix II of the VOC-regulations 2004/42/EG

VOC-limit appendix II A (subcategory C)

Wb: max. 40 g/l according to grade II (2010)

VOC-Content of einzA Dachbeschichtung: < 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 08/2022; with this, all previous specification sheets are invalid.