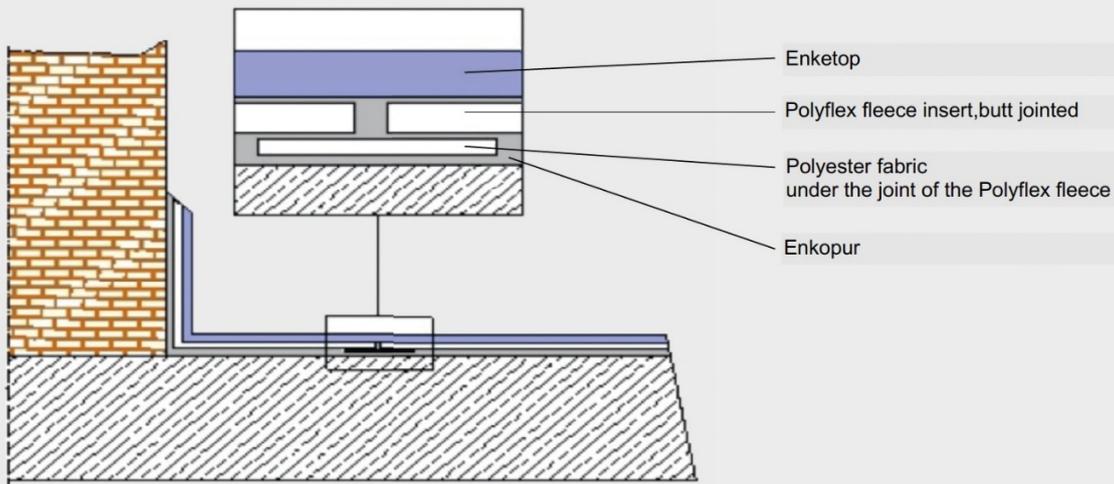


## Application instructions for coatings with Enketop

### Layer structure of the walkable Enketop coating system:



### Summary of workflow:

1. Clean and dry the substrate.
2. Apply the primer, depending on the condition of the substrate.
3. Waterproof the wall connections with Enkopur/Polyflex fleece/Enkopur.
4. Waterproof the entire surface with Enkopur/Polyflex fleece/Enkopur.

### After the Enkopur waterproofing system has hardened:

5. Apply the **Enketop** topcoat
  - a) in the wall area,
  - b) in the floor area.
6. De-aerate the floor using a spiked roller.
7. Optical design:
  - a) Partially sprinkle Enke plastic chips into the **Enketop** coating before it has hardened
  - b) Apply an **Enketop** adhesive coat to the hardened **Enketop** coating and sprinkle **Enketop** chips over the entire surface.
  - c) Apply an **Enketop** adhesive coat to the hardened **Enketop** coating and sprinkle Enke QuarzColor over the entire surface

Please refer to our brochure "Top Böden. Top Auswahl!" for numerous colour samples.

### After hardening of the **Enketop** coating:

8. Overcoat the surface with the transparent **Enketop sealant**

## Application instructions for coatings with **Enketop**

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## Application instructions for coatings with Enketop

**General conditions** According to VOB (*Vergabe- und Vertragsordnung für Bauleistungen* – German regulations for contracts and execution of construction works) the user is responsible for determining that the substrate is of a suitable quality. Before starting the waterproofing work, he has to personally verify that the quality of the substrate is suitable for coating. If necessary, he has to perform appropriate tests.

The surfaces to be coated must be clean, dry and free from oil and grease. Remove flaking, loose or crumbly parts, cement slurry, algae, moss and, if necessary, any remnants of old paint, etc. before starting the work. Grind glazed tile flooring and then pre-treat it with Enke Glass Primer.

Precoat substrates of freshly hardened concrete or cement screed (at least 28 days old) with two layers of Universal Primer 933 because the Enkopur waterproofing system reacts sensitively to alkalis.

With older concrete surfaces a single generous application of Universal Primer 933 will usually be sufficient.

Alternatively, Universal Primer 2K can also be used.

Like Enkopur, **Enketop** quickly forms a skin, ensuring rapid rainfastness.

As with Enkopur, it is imperative to ensure that the surface to be coated is completely **surface dry** in order to avoid adhesion problems (blistering).

As with Enkopur, no alkaline-reacting building materials (e.g. concrete, cement screed, tile adhesive, etc.) may be applied to **Enketop**.

**Enketop** must also not be diluted with solvents, as undesired chemical side reactions may occur which have a negative effect on the properties of the system.

If the balcony or terrace is several metres wide, it is always advisable to start work on the left and right, so that a sufficiently wide working area remains in the middle.

## Application instructions for coatings with Enketop

### Cleaning of the substrate

Remove any foreign matter and loose particles, such as old paint, coatings, waterproofing, algae growth, etc., all the way down to the solid, load-bearing substrate. Should this not be possible on site, an adhesion test is mandatory. Mechanically eliminate any possibly existing saturation with foreign substances, such as oils or chemicals, all the way down to the non-saturated zone.

The surface to be coated must be dry. Otherwise a skin will form on the underside that prevents adhesion to the substrate.

A surface prepared in such a way as to render it suitable for coating is clean, dry, stable, finely rough and free from grease, oil or any other adhesion-inhibiting substances.

Old tile flooring can be coated, but it must still be firmly fixed to the substrate, and there should be no cavities. Prior to waterproofing grind the tile surface to a matte finish.

Use Enke Glass Primer as a prime coat for glazed ceramic tile flooring.

### Important note!

For tile flooring, we would also like to point out the following:

Even tiles that still seem to be firmly attached can detach from the substrate over time and form cavities. This can then result in the tiles becoming detached from the substrate, together with the newly applied layer composite structure which adheres very well. **Such damage is not covered by our warranty!**

The assessment as to whether the substrate is in appropriate condition is the sole responsibility of the specialist company performing the work. The material manufacturer cannot be held liable for later consequences of a possible misjudgement of the substrate condition.

### Preparation of the substrate

Any unevenness, holes or cracks that may exist must first be filled with a filler consisting of a mixture of Enkopur (or **Enketop**) and fine-grained, dry quartz sand such that they are flush with the adjacent areas.

If necessary, apply a trowel finish to rising wall elements prior to waterproofing in order to allow application of the waterproofing system without gaps or cavities.

Always grind metal components.

## Application instructions for coatings with Enketop

### Primers

Always use a primer irrespective of whether it is applied to new or old substrates. The following primers are available for this purpose:

#### **Universal Primer 2K**

Universal Primer 2K is a two-component, solvent-based adhesion promoter for nearly all types of substrates, consisting of a resin solution (component A) and a hardener (component B).

The primer is easy to apply and dries quickly. After the two components (A + B) have been mixed, the primer remains ready to use for several weeks if stored in the hermetically sealed original packing drum.

Application rate:           Approx. 100–200 g/m<sup>2</sup>  
Flash-off time:             Approx. 15–60 minutes

#### **Universal Primer 933**

This primer dries very quickly and can be used for nearly all structural substrates: Mineral substrates (concrete, cement screed, masonry, plaster and natural stone) can be primed just as easily as bitumen sheeting (bitumen sheeting is unsuitable as a substrate for subsequent coating with **Enketop**), metal surfaces, wood and many plastic elements. Please contact the factory if in doubt.

Make sure that components made of metals or wood in particular, possibly even plastic elements are not painted because Universal Primer 933 will partially dissolve and/or swell most paint layers. Therefore test the compatibility of any paint coats with Universal Primer 933 beforehand or, even better, remove them mechanically right away.

In the event of unknown substrates, first perform adhesion tests.

Application rate:           100–200 g/m<sup>2</sup>  
Flash-off time:             10–60 minutes (depending on weather)



#### **Enke Glass Primer**

This primer is a rapidly drying adhesion promoter for glass and tiling. **Enke Glass Primer is suitable only for glass or glazed ceramic tiling.**

We recommend grinding tile flooring to a matte finish beforehand.

Application rate:           Approx. 50 g/m<sup>2</sup>  
Flash-off time:             30–60 minutes (possibly faster, depending on the weather)

## Application instructions for coatings with Enketop

### Waterproofing of connections with Enkopur

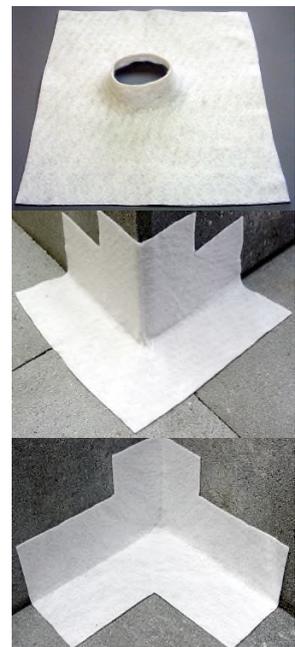
First perform any connection work on wall connections, posts or any other rising structural components, using Enkopur with Enke Polyflex fleece insert as standard. With 30 cm wide Polyflex fleece strips you will need approx. 1.0 kg/m of Enkopur to cover a wall connection area.

When working on corner connections, first cover the corners of the water-draining layer with Enkopur and a small strip of fleece (the fleece is easy to stretch a bit for this purpose, so that the corner area can be waterproofed without cavities). Subsequently make a slit in a suitable piece of fleece of the water-draining layer and then feed it, overlapping at the edges but without creases, around the corner. **Our prefabricated fleece corners render the waterproofing of corner areas particularly simple.**

Always grind metal components.

In the event of wall connections made of metal (zinc, copper or stainless steel), apply the Enkopur waterproofing and the **Enketop** coating up to the upper edge of the wall connections made of metal. With eave ends, apply the Enkopur waterproofing and the **Enketop** coating down to the lower edge of the eaves flashing.

For curves and/or tubular penetrations dilate and adjust the fleece according to the diameter and as a second step fit it around the curve as a collar, overlapping the vertical edges. Cover the cuts in the water-draining layer with a fleece strip cut to size. **Here also, you benefit from using our fleece collars.**



In subsequent repairs or in the event of protruding fleece edges or creased overlaps cut away the protruding parts and cover the repaired areas with Polyflex fleece and Enkopur, leaving no creases.

## Application instructions for coatings with Enketop

### Waterproofing of the surface with Enkopur

Always roll the Enke Polyflex fleece into the Enkopur without blisters or creases. To this effect pre-distribute at least 2.0 kg/m<sup>2</sup> of Enkopur with a lambskin roller, depending on the evenness and condition of the substrate. Immediately afterwards roll the Polyflex fleece into the Enkopur; then carefully press the Polyflex fleece into place using the roller.

The fleece-embedding layer of Enkopur must not be too thin to avoid potential adhesion problems in the future.

### Tip

If there are bulges or minor unevenness in the substrate that cannot be eliminated, we recommend making approx. 2 cm slits in the fleece edges in these places. This will prevent cavities.

In contrast to conventional waterproofing with Enkopur, the fleece mats are butt-jointed in this case, and the butt joint is reinforced with an Enke polyester fabric strip (at least 10 cm wide) and Enkopur as the work progresses.

Of course you can also have the fleece mats overlap as usual and do without the fabric strip, but then you have to expect to **need more Enketop!**

Apply the Enkopur topcoat “fresh on fresh”, making sure that the fleece is evenly coated with Enkopur. The application rate of Enkopur for the topcoat is at least 1.0 kg/m<sup>2</sup>.

The total application rate of Enkopur depends on the evenness of the substrate and is at least 3.0 kg/m<sup>2</sup> (depending on the condition of the substrate).



Enkopur waterproofing system with full-surface Enke Polyflex fleece insert



Waterproofing of the connections and the surface with Enkopur

## Application instructions for coatings with Enketop

### Coating with Enketop

First coat the rising connections with Enketop to match the colour of the floor coating.

Then evenly apply **Enketop** to the hardened layer of Enkopur/Polyflex fleece/Enkopur on the ground with a smoothing or notched trowel. Afterwards de-aerate the coating by carefully (without pressure) rolling a spiked roller crossways to achieve an optimal surface appearance.

Application rate of **Enketop**: at least 2.0–3.0 kg/m<sup>2</sup> (for the horizontal plane)



Coat rising wall connections with **Enketop**



Evenly apply **Enketop** with a notched trowel



De-aerate the **Enketop** coating with a spiked roller

## Application instructions for coatings with Enketop

### Optical design

- After de-aerating the **Enketop** coating, partially sprinkle Enke plastic chips into it (application rate: approx. 10–80 g/m<sup>2</sup>, depending on desired appearance).
- Apply an adhesive coat of approx. 500 g/m<sup>2</sup> of **Enketop** to the dried **Enketop** coating and sprinkle Enketop chips over the entire surface (consumption: approx. 800 g/m<sup>2</sup>). Sweep off any excess chips on the following day. To obtain an optimal sealing result, it is advisable to break vertically embedded chips with a smoothing trowel and then sweep or vacuum the surface again.

If you need more than one packaging unit of the chips, we recommend that you thoroughly mix the required total quantity again before sprinkling.

- Apply an adhesive coat of approx. 500 g/m<sup>2</sup> of **Enketop** to the dried **Enketop** coating and sprinkle Enke QuarzColor (standard colours: orange, light grey, beige, dark grey) over the entire surface (consumption: approx. 3.0 kg/m<sup>2</sup>). This variant is not suitable for substrates with load-distributing measures in place or for reinforced wood composite materials (e.g. OSB).

### Sealing

After the **Enketop** coating has hardened, apply a transparent topcoat of **Enketop Sealant**. This sealant is available both as a smooth and an anti-slip version. Use a velour roller to apply the **Enketop Sealant**. The application rate of the sealant depends on the optical design and the desired slip resistance:

Enke plastic chips with partial sprinkling: Application rate of <b>Enketop Sealant</b>	Approx. 250 g/m <sup>2</sup>
Enketop chips with full-surface sprinkling: Application rate of <b>Enketop Sealant</b>	Approx. 300 g/m <sup>2</sup>
Enke QuarzColor with full-surface sprinkling: Application rate of <b>Enketop Sealant</b>	Approx. 250–700 g/m <sup>2</sup> (max. 350 g/m <sup>2</sup> per stroke)

For a lasting preservation of the appearance of the **Enketop** surface, please refer to the care instructions at [www.enke-werk.de](http://www.enke-werk.de)

## Application instructions for coatings with Enketop



Partial sprinkling with Enke plastic chips



Full-surface sprinkling with Enketop chips



Full-surface sprinkling with Enke QuarzColor

## Application instructions for coatings with Enketop

- Notes on disposal** As soon as you have finished using the product, empty the packing drums completely to allow proper disposal, ensuring they are scraped out and drip-free. Tin containers emptied of residue can be recycled using appropriate steel recycling channels. As a certified user of the corresponding German recycling logo ENKE can provide a list of collection points. The user shall dispose of uncured adhering material or larger amounts of product residues in tin packing drums **at his expense** as this is special waste.
- Health and safety at work** Ensure personal health and safety at work. Please also refer to our safety data sheets.

All information in this publication is based on our current technical knowledge and our experience and is intended as general guidelines only. The variety of possible influences on application and use do not exempt users from familiarising themselves with the correct use of our products by carrying out their own tests and trials. Be sure to consult our factory before carrying out restorations on unfamiliar or unusual substrates. Since a proper, professional use of our products is beyond the scope of control of the manufacturer, our warranty covers only the condition of the material. All and any damage due to improper application, incorrect choice of material or inadequate substrate preparation is excluded from our warranty. This document does not represent a legally binding assurance of certain characteristics or suitability for a specified purpose. The user is responsible for protecting the rights of third parties and complying with all current legislation and regulations. Any oral comments made by our employees which contradict the content of the present application instructions shall be invalid unless expressly confirmed in writing by ENKE-WERK. Non-compliance with these conditions shall render the material warranty void.

Without prior consultation with our factory the user is responsible for any application beyond the scope of the recommendations contained in these application instructions. Any damage resulting from such applications shall be excluded from our warranty. These application instructions supersede all previous versions.

Düsseldorf, July 2017

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