

# CONIFLOOR UPD+ - System

(Urban Polyurethane Decorative + elastic matt)

**Polyurethane resin coating, decorative, low emission, high elasticity, pigmented, static crack bridging, with rubber or foam mat for impact sound insulation (interior)**

**Application** Public building, hospitals, senior residences, schools, kindergartens, private homes alternatively on asphalt screeds (interior)

**System built-up: Total layer thickness** ca. 6 – 8 mm  
(x = layer thickness mat + ca. 2.0 – 2.5 mm)

		Product	Consumption	Application	Remarks
Primer	concrete cement screed	<b>CONIFLOOR 110</b> or <b>CONIFLOOR 116 LE</b>	0.3 – 0.5 kg/m <sup>2</sup>	brush in / roll  Broadcast by exceeding the re-coating interval.	moisture level of concrete ≤ 4%  without (!) excess sand
	optional	filled with oven dried quartz sand, grain size 0.1 - 0.3mm  oven dried quartz sand, grain size 0.3 - 0.8mm	0.6 – 1.0 kg/m <sup>2</sup>  2.0 – 3.0 kg/m <sup>2</sup>	trowel / notched squeegee  Broadcast by exceeding the re-coating interval.	as scratch coat for unevenness as of ≥ 0,5 mm  mixing ratio primer: quartz sand 1 : 0.5 - 1 in parts by weight depending on the thickness of the layer and the temperature of the sub-base  without (!) excess sand
Elastic layer	optional	<b>CONIFLOOR 210</b>  CONIFLOOR mat (G30), 4 or 6mm  CONIFLOOR mat.(PKR 310 / F40), 4 or 6 mm	0.8 – 1.0 kg/m <sup>2</sup>	squeegee / notched trowel	The mat type must be approved by CONICA
Pore sealer		<b>CONIFLOOR 310</b>	0.7 – 0.9 kg/m <sup>2</sup>	straight edged trowel	
Coating		<b>CONIFLOOR 310</b>	0.5 – 0.7 kg/m <sup>2</sup>	straight edged trowel	This step is necessary to avoid open pores in the elastic layer which may lead to bubbles in the final coating layer
Coating		<b>CONIFLOOR 450</b>	2.5 – 3.0 kg/m <sup>2</sup>	squeegee / notched trowel	direct application without filling the mixture with quartz sand
Sealing lacquer		<b>CONIFLOOR 541 W</b>	0.12 - 0.15 kg/m <sup>2</sup>	roll	transparent, elastic top coat

## Preparation

Substrates to be coated must be firm, dry, load bearing and free of loose and brittle particles and substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants.

A **pre-treatment** of the substrate by grit or shot blasting, high-pressure water jetting, grinding or scabbing including the necessary post-treatment is only necessary, when the layer is soiled or the re-coating intervals have been exceeded.

After the pre-treatment, the bond strength of the concrete must be at least 1.5 N/mm<sup>2</sup>.

The sub base must contain a moisture barrier (damp proof membrane D.P.M.). The **moisture level** must not exceed **4 %**. The **temperature of the substrate must be at least 3°C above the current dew point temperature**.

As for the rest the sections of the requirements concerning substrates to be coated shown in the according guidelines apply.

## Application method

### Priming

CONIFLOOR 110 or 116 LE is rolled on the pre-treated substrate by a roller in a thin layer – **puddles** need to be **avoided**.

The consumption of CONIFLOOR 110 or 116 LE used as primer is approximately 0.3 - 0.5 kg/m<sup>2</sup>, depending on the conditions on site and of the sub-base.

A 2<sup>nd</sup> application of CONIFLOOR 110 or 116 LE with approximately 0.2 - 0.4 kg/m<sup>2</sup> may be necessary to ensure, that all pores and capillaries are completely sealed.

When there is unevenness of >0.5mm, a scratch coat has to be applied in order to equalize it.

Asphalt screeds (at least IC10) can be coated inside by replacing the primer with CONIFLOOR 420. If you have any questions, please contact our technical service.

### Sanding

To ensure the adhesion of the following PUR-based layer the primer is broadcasted with quartz sand (grain size 0.3–0.8 mm) whilst still wet - **without excess sand / no bald patches**. Consumption of the quartz sand is approximately 1 kg/m<sup>2</sup>.

Quartz sand, which is – after curing – still loose and unbound, needs to be pushed off with a steel scraper. The whole surface has to be cleaned (before the next coat is applied) either sweeping or by vacuum cleaning.

### Installation of the mat

After curing, apply the adhesive CONIFLOOR 210 with a notched trowel onto the primed surface and embed the pre-cut rubber mat in the **fresh** CONIFLOOR 210.

The lengths of the mat are held in place by **using weights**, paying particular **attention** to the joints. It is very important that there are **no open joints**.

**Roll** over the surface after 30-60 minutes (depending on the temperature) using a 50 kg roller. The weights are left on the mat until the adhesive has fully cured (normally overnight).

### Pore Sealing

After curing, seal the pores of the elastic layer by applying CONIFLOOR 310, using a straight edged trowel or a squeegee.

In order to ensure a 100 % seal of the elastic layer apply approx. 0.7 – 0.9 kg/m<sup>2</sup> CONIFLOOR 310 onto the pore-sealed surface, using a notched trowel or straight edge trowel or squeegee.

### Intermediate layer:

As 2<sup>nd</sup> intermediate layer, another thin coating is needed to ensure that all open pores are closed.

For this purpose, apply approx. 0.5 – 0.7 kg/m<sup>2</sup> CONIFLOOR 310 onto the pore-sealed surface, using a notched trowel or straight edge trowel or squeegee.

### Coating

After curing (see product data sheet) the main amount of CONIFLOOR 450 is applied using a notched trowel or squeegee.

This coating is not filled with additional quartz sand.

### Topcoat

The coating needs to be protected with our transparent, elastic, water based topcoat CONIFLOOR 541 W.

CONIFLOOR 541 W is normally applied to the pre-treated substrate by **rolling** with a "Microtex" roller (tuft size: 10-12 mm). Roll out well and keep the **overlap** areas to a **minimum**.

It is necessary to **re-roll** freshly applied material with a second clean paint roller in order to obtain a uniform surface with a minimum of overlap marks.

## Remarks

Please contact our Technical Department if there are questions.



### CE-Label:

See Declaration of Performance