

# CONIFLOOR LPC - System

(Living Polyurethane Comfort)

**Polyurethane resin coating, low emission, high elasticity, pigmented, static crack bridging, reducing impact sound (interior)**

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

**System built-up** Total layer thickness ca. 2.0 – 3.0 mm

		Product	Consumption	Application	Remarks
Primer	concrete cement screed	<b>CONIFLOOR 110</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
		or <b>CONIFLOOR 116 LE</b>			
Scratch coat	optional	<b>CONIFLOOR 110</b>	0.6 – 1.0 kg/m <sup>2</sup>	trowel / notched squeegee	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
		filled with oven dried quartz sand, grain size 0.1 - 0.3mm  oven dried quartz sand, grain size 0.3 - 0.8mm			
Levelling	optional	<b>CONIFLOOR 440</b>	0.8 – 1.0 kg/m <sup>2</sup>	squeegee / notched trowel	ensuring the sealing of all open pores
Coating		<b>CONIFLOOR 440</b>	2.5 – 3.0 kg/m <sup>2</sup>	squeegee / notched trowel	
Sealing lacquer		<b>CONIFLOOR 541 CW</b>	0.12 - 0.15 kg/m <sup>2</sup>	roll	pigmented, 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.

#### Intermediate layer (pore sealing)

In case of high optical requirements, we **recommend** an intermediate layer of CONIFLOOR 440 before applying the actual coating layer. This layer will close the pores of the quartz sand on the primer or scratch coat.

For this purpose CONIFLOOR 440 can be used with a consumption rate of approximately 0.8 – 1.0 kg/m<sup>2</sup>.

#### Coating

Then the coating CONIFLOOR 440 is applied either directly on the prepared substrate. Consumption rate of 2.5 – 3.0 kg/m<sup>2</sup>. See also the technical data sheet.

#### Topcoat

The coating needs to be protected with our pigmented, elastic water based topcoat CONIFLOOR 541 CW. It is possible to apply also the colourless topcoat CONIFLOOR 541 W. Nevertheless, this top coat will not protect the body coat CONIFLOOR 440 below referring to yellowing.

CONIFLOOR 541 CW 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

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