

CONIFLOOR UPD – System Set Up

Low Emission, Elastic and Decorative Indoor PUR flooring system

Fields of application showrooms, offices, hospitals, lunch rooms

System data

		Product	Consumption	Application	Remarks
Primer	concrete	CONIFLOOR 110	0.3 – 0.5 kg/m ²	spray / roll	moisture level of concrete ≤ 4%
	cement screed	oven dried quartz sand, grain size 0.3 - 0.8mm	0.8 - 1.0 kg/m ²	broadcast	without (!) excess sand
Scratch coat	optional	CONIFLOOR 110 filled with oven dried quartz sand, grain size 0.1 - 0.3mm	0.6 – 1.0 kg/m ²	squeegee / notched trowel	as scratch coat for unevenness as of ≥ 0.5 mm mixing ratio primer: quartz sand 1 : 0.5 in parts by weight depending on the thickness of the layer and the temperature of the sub-base
		oven dried quartz sand, grain size 0.3 - 0.8mm	2.0 - 3.0 kg/m ²	broadcast	without (!) excess sand
Coating	optional	CONIFLOOR 450	0.8 – 1.0 kg/m ²	squeegee / notched trowel	ensuring the sealing of all open pores
Coating		CONIFLOOR 450	2.5 – 3.0 kg/m ²	squeegee / notched trowel	
Sealing lacquer		CONIFLOOR 541 W	0.11 - 0.13 kg/m ²	roll	colourless, elastic top coat

Total thickness of the system ca. 2.0 - 2.5 mm



CE-Label:
See Declaration of Performance

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/mm².

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

The **consumption** of CONIFLOOR 110 used as primer is approximately 0.3 - 0.5 kg/m², depending on the conditions on site and of the sub-base.

A 2nd application of CONIFLOOR 110 with approximately 0.2 - 0.4 kg/m² may be necessary to ensure, that all pores and capillaries are completely sealed.

When there is **unevenness** of $\geq 0.5\text{mm}$, a scratch coat has to be applied in order to equalize same.

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/m².

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 450 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 450 can be used with a consumption rate of approximately 0.8 – 1.0 kg/m².

Coating

Then the coating CONIFLOOR 450 is applied. Please also see product data sheet.

Top coat

To optimize the scratch and mechanical resistance CONIFLOOR 450 is sealed with our colourless, elastic, water based top coat CONIFLOOR 540 W.

CONIFLOOR 540 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.