

CONIFLOOR IPS – System Set Up

Low Emission, Hard and Tough, Durable PUR Indoor Flooring System

Fields of application

production areas, warehouses, recreation rooms

System data

		Product	Consumption	Application	Remarks
Primer	concrete cement screed	CONIFLOOR 110	0.3 – 0.5 kg/m ²	roll / brush-in	moisture level of concrete ≤ 4%
		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	0.6 – 1.0 kg/m ²	notched squeegee / trowel	as scratch coat for unevenness > 0,5 mm. Mixing ratio primer : quartz sand 1 : 0.5 - 1 in parts by weight depending on the thickness of the layer and on 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
Intermediate layer	optional	CONIFLOOR 420	approximately 0.8 -1.0 kg/m ²	notched squeegee / trowel	Levelling layer / pore sealer - ensuring the sealing of all open pores
Coating		CONIFLOOR 420	approx. 2.3 kg/m ²	notched squeegee / trowel	CONIFLOOR 420 can be filled with oven dried quartz sand (grain size 0.1-0.3mm). Mixing ration 1 : 0.3 in parts by weight
Sealing lacquer		CONIFLOOR 520 CW	0.12 - 0.15 kg/m ²	roll	coloured, hard top coat

Total thickness of the system

approx. 2.0 – 3.0 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 >0.5mm, 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 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 420 can be used with a consumption rate of approximately 0.8 – 1.0 kg/m².

Coating

Then the coating CONIFLOOR 420 is applied, either directly or filled with oven dried quartz sand (grain size 0.1-0.3mm), please also see the product data sheet. For the application use a notched trowel or a squeegee and after latest 5 to 10 minutes spike rolling. See also the technical data sheets to the system build-up.

Top coat

The coating needs to be protected with our pigmented water based top coat CONIFLOOR 520 CW.

CONIFLOOR 520 CW is normally applied to the fresh, ready for foot traffic coating 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.