

CONIFLOOR IES – System Set Up

Hard and Durable Epoxy Indoor Flooring System

Fields of application

production areas, warehouses, recreation rooms

System data

		Product	Consumption	Application	Remarks
Primer	concrete	CONIFLOOR 110	0.3 – 0.5 kg/m ²	brush in / roll	moisture level of concrete ≤ 4%
		oven dried quartz sand, grain size 0.3 - 0.8mm	0.8 - 1.0 kg/m ²	broadcast by exceeding the re-coating interval	without (!) excess sand
Scratch coat	optional	CONIFLOOR 110	0.6 – 1.0 kg/m ²	trowel / notched squeegee	as scratch coat for unevenness as of ≥ 0,5 mm
		filled with oven dried quartz sand, grain size 0.1 - 0.3mm			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 by exceeding the re-coating interval	without (!) excess sand
Coating		CONIFLOOR 430	2.5 - 4.0 kg/m ²	trowel / notched squeegee	CONIFLOOR 430 can be filled with oven-dried quartz sand (grain size 0.1–0.3mm) - mixing ratio coating : quartz sand 1 : 0.3 up to 1 : 0.7
		Unfilled or filled with oven dried quartz sand, grain size 0.1 - 0.3mm			The maximum filling ratio depends on the thickness of the layer and the temperature of the sub-base
Sealing lacquer	optional	CONIFLOOR 520 CW			coloured, hard
		or	0.12 - 0.15 kg/m ²	roll	or
		CONIFLOOR 520 W			colourless, hard top coat

Total thickness of the system

ca.1.5 – 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 1.5N/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

When applying the epoxy-based coating **within** the time frame of **2 days** (20°C), there is **no need** to broadcast quartz sand into the wet primer.

In case the maximum over coating time is **exceeded**, the primer **must** be broadcasted with oven dried quartz sand (grain size 0.3 – 0.8 mm) whilst still wet - **without excess sand / no bald** patches to ensure the adhesion of the following epoxy-based layer. Consumption of the quartz sand 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.

Coating

Then our coating CONIFLOOR 430 is applied, either directly or filled with oven dried quartz sand (0.1-0.3mm), mixing ratio 1 : 0.3 up to 1 : 07 parts by weight (please also see product data sheet).

The **maximum filling** grade has to be calculated considering the thickness of the layer as well as the surrounding temperatures – please see product data sheet.

Top coat

The coating then is re-worked with our pigmented, water based PUR top coat CONIFLOOR 520 CW or the colourless version CONIFLOOR 520 W.

CONIFLOOR 520 CW or CONIFLOOR 520 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.