

CONIFLOOR Colourquartz Slip resistant system - System Set Up

Highly slip resistant, Epoxy Indoor Flooring System, for areas with low to medium mechanical stress

Fields of application production areas and large kitchen, where a higher slip resistance is required

Total thickness of the system 2,5 mm

System data

		Product	Consumption	Application	Remarks
Primer	Concrete or cement screed	CONIFLOOR 550	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	0.3 – 0.5 kg/m ² 0.8 - 1.0 kg/m ²	broadcast by exceeding the re-coating interval	without (!) excess sand
Scratch coat	optional	CONIFLOOR 550	0,8 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 Mix-Ratio 1:1 oven dried quartz sand, grain size 0.3 - 0.8mm	0,8 kg/m ²		mixing ratio primer: quartz sand 1 : 1 in parts by weight depending on the thickness of the layer and the temperature of the sub-base
Wear Coat		CONIFLOOR 550	0,8 kg/m	trowel / notched squeegee	
		filled with oven dried quartz sand, grain size 0.1 - 0.3mm Mix-Ratio 1:1 oven dried Colorquartz sand, grain size 0.3 - 0.8mm	Ca. 3.5 kg/m ²		excess sand
Sealing lacquer		CONIFLOOR 550	Min. 0,5 kg/m ²	trowel or squeegee and roll	UV-stabil, transparent top coat

Total thickness of the system ca. 2.5 – 3.5 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 1.5N/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 550 is rolled on the pre-treated substrate by a roller in a thin layer – **puddles** need to be **avoided**.

The consumption of CONIFLOOR 550 or CONIFLOOR 112 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 550 or CONIFLOOR 112 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 is approximately 1 kg/m² (primer) and up to 2 - 3 kg/m² (scratch coat).

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.

Wear Coat

Then the coating CONIFLOOR 550 is applied, either directly with trowel or notched squeegee. CONIFLOOR 550 can be applied filled up to 1:1 parts by weight with oven-dried quartz sand (grain size 0.1–0.3mm) in this system.

The consumption of CONIFLOOR 550 is approximately 0,8 /m², depending on the conditions on site and of the sub-base. See also the product data sheet.

This base coat is directly and full broadcasted with oven-dried coloured quartz sand (grain size 0.3–0.8mm).

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 top coat is applied) either sweeping or by vacuum cleaning.

Top coat

Then the coating CONIFLOOR 550 is applied, either directly with trowel or squeegee and roll a “Microtex” roller (tuft size 8-10 mm). Roll out well and keep the **overlap** areas to a **minimum**. The consumption is minimum 0.5 up to max. 0.8 kg/m².

Remarks

Please contact our Technical Department if there are questions.