CONIFLOOR IES SR
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, where a higher slip resistance is required

System data

		Product	Consumption	Application	Remarks
Primer	Concrete or cement screed	**CONIFLOOR 110** oven dried quartz sand, grain size 0.3 - 0.8mm	0.3 – 0.5 kg/m² 0.8 - 1.0 kg/m²	brush in / roll broadcast by exceeding the re-coating interval	moisture level of concrete ≤ 4% without (!) excess sand
Scratch coat	optional	**CONIFLOOR 110** filled with oven dried quartz sand, grain size 0.1 - 0.3mm oven dried quartz sand, grain size 0.3 - 0.8mm	0.6 – 1.0 kg/m² 2.0 – 3.0 kg/m²	trowel / notched squeegee broadcast by exceeding the re-coating interval	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 without (!) excess sand
Coating		**CONIFLOOR 430** unfilled or filled with oven dried quartz sand, grain size 0.1 - 0.3mm oven dried quartz sand, grain size 0.3 - 0.8mm	1.2 - 1.5 kg/m² If the primer or the scratch primer is broad casted, the consumption is min. 1.6 – 1.8 kg/m². 3.5 - 5 kg/m²	trowel / notched squeegee full broadcast	CONIFLOOR 430 unfilled or can be filled with oven-dried quartz sand (grain size 0.1–0.3mm) - mixing ratio coating : quartz sand up to 1 : 0.3 parts by weight excess sand
Sealing lacquer		**CONIFLOOR 430**	0.60 - 0.90 kg/m²	trowel or squeegee and roll	coloured, glossy

Total thickness of the system ca. 2.5 – 3.5 mm

CE

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/mm^2.

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/m^2, depending on the conditions on site and of the sub-base.

A 2nd application of CONIFLORR 110 with approximately 0.2 - 0.4 kg/m^2 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/m^2 (primer) and up to 2 - 3 kg/m^2 (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.

Coating

Then the coating CONIFLOOR 430 is applied, either directly with trowel or notched squeegee. CONIFLOOR 430 can be applied unfilled or filled up to 1:0,3 parts by weight with oven-dried quartz sand (grain size 0.1–0.3mm) in this system.
The consumption of CONIFLOOR 430 is approximately 1.2 - 1.5 kg/m^2, 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 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 next coat is applied) either sweeping or by vacuum cleaning.

Top coat

Then the coating CONIFLOOR 430 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 0.60 up to max. 0.90 kg/m^2.

Remarks

Please contact our Technical Department if there are questions.

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