CONIFLOOR IET – System Set Up

Hard, thin layer textured Epoxy Coating for Indoor Flooring System

Fields of application production areas, recreation rooms with low to medium mechanical loads

System data

		Product	Consumption	Application	Remarks
Primer	Concrete or cement screed	**CONIFLOOR 110**	0.3 – 0.5 kg/m²	brush in / roll Broadcast by exceeding the re-coating interval. A scratch coat must be applied before the application of the textured coating.	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	0.6 – 1.0 kg/m²	trowel / notched squeegee	as scratch coat for unevenness as of ≥ 0,5 mm mixing ratio primer: quartz sand 1 : 0.5 - 1 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. A scratch coat must be applied before the application of the textured coating.	without (!) excess sand
Textured coating		**CONIFLOOR 431**	0.60 - 0.80 kg/m^2 by each working step	trowel or notched squeegee and structure roller	without any additional filling (!)

Total thickness of the system ca. 1 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 1.5 N/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 of 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/m^2.

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.

Textured Coating

In case of 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.
Before the application of the thin textured coating CONIFLOOR 431 a scratch coat with CONIFLLOR 110 must be applied to equalize the broad cast surface.
The consumption of CONIFLOOR 431 is approximately min. 0.6 kg/m^2 until max. 0.8 kg/m^2 depending on the conditions on site and of the the prepared sub-base.
For the application preferable tools are trowel or notched rubber squeedgee and structure roller.

Remarks

Please contact our Technical Department if there are questions.

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