

# CONIFLOOR IPS SR - Slip resistant Polyurethane-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	<b>CONIFLOOR 110</b>	0.3 – 0.5 kg/m <sup>2</sup>	brush in / roll	moisture level of concrete ≤ 4%
		oven dried quartz sand, grain size 0.3 - 0.8mm	0.8 - 1.0 kg/m <sup>2</sup>	broadcast by exceeding the re-coating interval	without (!) excess sand
Scratch coat	optional	<b>CONIFLOOR 110</b>	0.6 – 1.0 kg/m <sup>2</sup>	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
Coating		<b>CONIFLOOR 420</b>	1.2 - 1.5 kg/m <sup>2</sup>	trowel / notched squeegee	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
		unfilled or filled with oven dried quartz sand, grain size 0.1 - 0.3mm	If the primer or the scratch primer is broad casted, the consumption is min. 1.6 - 1.8 kg/m <sup>2</sup>		
Sealing lacquer		<b>CONIFLOOR 420</b>	3.5 - 5 kg/m <sup>2</sup>	full broadcast	excess sand
		oven dried quartz sand, grain size 0.3 - 0.8mm or 0.7 – 1.2mm			
Sealing lacquer		<b>CONIFLOOR 420</b> or	0.70 - 1.00 kg/m <sup>2</sup>	trowel or squeegee and roll	coloured, glossy
		<b>CONIFLOOR 570 C</b> or	0.50 - 0.70 kg/m <sup>2</sup>		
		<b>CONIPROOF 591/1</b>	0.50 - 0.70 kg/m <sup>2</sup>		

**Total thickness of the system** ca. 2 – 4 mm

## 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<sup>2</sup>.

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<sup>2</sup>, depending on the conditions on site and of the sub-base.

A 2<sup>nd</sup> application of CONIFLOOR 110 with approximately 0.2 - 0.4 kg/m<sup>2</sup> 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 or scratch 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/m<sup>2</sup> for the primer.

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 Coating

Then the coating CONIFLOOR 420 is applied, either directly with trowel or notched squeegee.

CONIFLOOR 420 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 420 is approximately 1.2 - 1.5 kg/m<sup>2</sup>, 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 or 0.7-1.2mm).

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 420 or CONIFLOOR 570 C or CONIPROOF 591/1 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 approx. min. 0.50 up to max. 1.00 kg/m<sup>2</sup>. See also the technical data sheets to the mentioned products.

### Remarks

Please contact our Technical Department if there are questions.



### CE-Label:

See Declaration of Performance

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