

# CONIPROOF PWC sp

Parking Water Proofing Crack-bridging spray Polyurethan

## Car park system class OS 10 - System Set Up

System for multi-storey car park, with separate membrane and wear coat, enhanced dynamic crack bridging properties, for areas with pedestrian and vehicle traffic, slip resistant, polyurethane system with medium mechanical stress

**Fields of application** exposed and intermediate parking decks

### System data

		Product	Consumption	Application	Remarks
Primer	Concrete or cementitious screed	<b>CONIFLOOR 118</b>	0.3 – 0.5 kg/m <sup>2</sup>	brushing in / roll / squeegee	moisture level of concrete ≤ 4% (CM-measure).  If no scratch coat is applied, the primer must be broadcasted with fire dried quartz sand, in excess with grain size 0.3 - 0.8 mm.
	optional	<b>CONIFLOOR 118</b> filled with oven dried quartz sand, grain size 0.1 - 0.3 mm  fire dried quartz sand, grain size 0.3 - 0.8 mm	0.7 – 1.3 kg/m <sup>2</sup> including sand  2.5 – 4.0 kg/m <sup>2</sup>	trowel / notched squeegee  broadcast in excess	as scratch coat for unevenness ≥ 0,5 mm.  Mixing ratio primer : quartz sand 1 : 0.5 - 1 in parts by weight depending on the thickness of the layer and on the temperature of the sub-base
Adhesion promoter		<b>CONIPROOF 165</b>	0,05-0,08 kg/m <sup>2</sup>	Preferably applied by a low pressure-airless sprayer	When exceeding the maximum coverage quantity, the material can foam and cure very slowly. We therefore recommend applying a thin and uniform layer. Avoid puddles.
High elastic water proofing membrane		<b>CONIPROOF 410</b>	2.1 – 2.3 kg/m <sup>2</sup>	CONIPROOF 410 is applied with a special high pressure machine, which reaches 160 - 200 bar and a temperature of 60 – 80 °C at the spray head.	no filling or broadcast with sand

<b>Wear Coat</b>		<b>CONIPROOF 492</b>	1,3-2,1 kg/m <sup>2</sup>	trowel / notched rubber squeegee	If re-coating interval of CONIPROOF 410 is exceeded (> 8 h) the <b>adhesion promoter CONIPROOF 165</b> has to be used with consumption rate 0,05 kg-0,08 kg/m <sup>2</sup> . Quartz sand which is after curing still loose or not bonded is to remove.
		oven dried quartz sand, grain size 0.3 - 0.8 mm or 0.6 – 1.2 mm		broadcast in excess	
<b>Top Coat</b>	alternative	<b>CONIPROOF 591/1</b>	0.6 - 0.7 kg/m <sup>2</sup>	Trowel / rubber squeegee and roller	UV-resistant, solvent-based polyurethane top coat

**Total thickness of the system:** min. approx. 6:5 mm

### CONIPROOF PWC sp - Technical Data

Property	Standard	Result
Adhesive strength at T <sub>NORM</sub>	EN 1542	≥ 3.6 N/mm <sup>2</sup> (≥ 2.5 N/mm <sup>2</sup> )
Adhesive strength after freeze-thaw with de-icing salt	EN 13687-1 and -2	≥ 2.3 N/mm <sup>2</sup> (≥ 1.4 N/mm <sup>2</sup> )
Dynamic crack bridging (-20°C)	EN 1062-7	IV <sub>T+V</sub>
Grip and slip resistant	EN 13036-4	≥ 59 Skt (≥ 60 Skt)



**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, such as oil, grease, rubber skid marks, paint or other contaminants, which impair adhesion

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, if 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 118 is rolled on the pre-treated substrate by a roller or applied with a rubber squeegee and back rolling to a thin layer – puddles need to be avoided.

The consumption of CONIFLOOR 118 is approximately 0.3 - 0.5 kg/m<sup>2</sup>, depending on the conditions on site and of the subbase.

A 2<sup>nd</sup> application of CONIFLOOR 118 with approx. 0.2 - 0.4 kg 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 general in order to equalize the substrate.

#### Sanding

When applying the epoxy-based coating within the time frame of 1 day (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<sup>2</sup> (primer) and up to approx. 2 - 4 kg/m<sup>2</sup> (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.

The layer beneath the waterproofing membrane is in principle broadcast with quartz sand grain size 0.3 – 0.8 mm. Before applying the waterproofing membrane the substrate must be revised with the adhesion promoter CONIPROOF 165. Preferably applied by a low pressure-airless sprayer. When exceeding the maximum coverage quantity, the material can foam and cure very slowly. We

therefore recommend applying a thin and uniform layer. Avoid puddles.

#### Wear Coat

The crack bridging waterproofing membrane CONIPROOF 410 is applied with a special high pressure machine, which reaches 160 - 200 bar and a temperature of 60 – 80 °C at the spray head. If re-coating interval of CONIPROOF 401 is exceeded (> 4 h) the adhesion promoter CONIPROOF 165 has to be used with consumption rate 0,05 kg- 0,08 kg/m<sup>2</sup>.

The wear coat CONIPROOF 492 is applied, either directly with trowel or notched rubber squeegee.

The consumption of the high reactive resin CONIPROOF 401 is min. 2.2 - 2.3 kg/m<sup>2</sup> (no additional filling) depending on the conditions on site and of the subbase. The consumption of CONIPROOF 492 is min. 1.3 – 1.5 kg/m<sup>2</sup> in. For this see also the product data sheets.

This wear 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 CONIPROOF 591/1 is applied, either directly with trowel or squeegee and roll with a “Microtex” roller (tuft size 8-10 mm). Roll out well and keep the overlap areas to a minimum. The consumption is min. 0.5 until max. 0.9 kg/m<sup>2</sup>.

#### **Questions**

Please contact our Technical Department, if there are any questions.