

CONIPUR HG eco in-situ

Point Elastic Indoor Sports Surfacing System IHF, BWF and FIBA Approved
With In-Situ Installed Elastic Layer

Fields of application

multipurpose sports halls, school sports

System data

		in-situ built elastic layer			
		Product	Consumption	Application	Remarks
Primer	For asphalt	No primer necessary	-	-	In case of concrete moisture higher than 4 % (e.g. early age concrete), CONIPUR 3785 can be used as a primer. A surface preparation by light blasting or grinding surface removal (incl. the necessary post-treatment) is required.
	For concrete	CONIPUR 73 (CONIPUR 3710)	0.20 kg/m ² (0.50 kg/m ²)	rubber squeegee, paint roller	
Elastic Layer	approx. 10 mm	CONIPUR 322 (CONIPUR 326)	1.4 kg/m ²	paver / trowel	Depending on the density / quality of the granules the quantity of the binder might vary.
		SBR granules, 1-4mm	6.5 kg/m ²		
Pore sealer	first layer	CONIPUR 203	approximately 1.10 kg/m ²	straight edged trowel	<p>The consumption of the pore sealer depends on the structure of the elastic layer.</p> <p>After the first coating of the pore sealer has cured, the surface has to be ground and cleaned.</p> <p>Before applying the 2nd layer of the pore sealer check for unevenness, level these, grind and clean again.</p> <p>Once the surface is cured, clean and dry, the 2nd layer of the pore sealer can be applied.</p> <p>Make sure, all pores of the elastic layer are closed before the application of the coating.</p>
	second layer	CONIPUR 203	approximately 0.3 kg/m ²	straight edged trowel	
		The 2nd layer of the pore sealer must not be ground!			

PUR sports surface					
		Product	Consumption	Application	Remarks
Coating		CONIPUR 3330 (CONIPUR 227)	2.2 kg/m ² (2.8 kg/m ²)	notched squeegee	The flatness of the in-situ layer may not exceed a tolerance of 2 mm measured with a straight edge of 4m in order to prevent the run-off of the coating. To avoid running-off of the coating over the edges, a self-gluing foam band is fixed.
Sealing lacquer		CONIPUR 67	0.15 kg/m ²	paint roller	Critical colours regarding coverage must be applied repeatedly until opacity is achieved - Critical colours regarding staining must be fixed with a transparent sealing lacquer.
Line Paint		CONIPUR 3100	15 g/m	paint roller (paint-brush)	Critical colours regarding coverage must be applied twice.

Total thickness of the system 10 + 2mm, 10 = thickness of the elastic layer

Selected technical properties

		Thickness in mm (elastic layer + coating)	Result	Requirement	Remarks
according to EN 14904 ***	Shock absorption	10+2	26.4 %	25 - 75 %	see below
	Impact resistance	10+2	20 Nm	≥ 8 Nm	
	Resistance to wear	10+2	19 mg	≥ 80 mg	
	Specular gloss	10+2	43	> 45	

*** **Shock absorption and impact resistance** **internal** results – no external test report available

*** **Resistance to wear and specular gloss** taken from test report CONIPUR HG eco 4 + 2 mm issued by MPA, Stuttgart, Germany

Preparation

Substrates to be coated have to be firm, dry and load bearing, free of loose and brittle particles and substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants.

The preparation of the substrate is done by grinding or shot blasting and cleaning of the surface.

A concrete sub-base must contain a moisture barrier (damp proof membrane D.P.M.). The **residual moisture** must not exceed **4 %**. The bond strength of the substrate must be at least 1.0 N/mm².

The **temperature** of the substrate must be at least **3 °C** above the current dew point temperature.

The optimal **temperature** of the material before and during application is between **15** and **25 °C**.

In regard to the **flatness** of the subfloor, the **tolerance** must not exceed **2 mm measured** with a straight edge of **4 m** when applying CONIPUR 3330. Otherwise the coating will – due its viscosity – likely not / not sufficiently cover the high spots of the subbase. This will have a negative impact on the mechanical properties.

Application

1) In-situ built elastic layer

Apply the first coat of our primer CONIPUR 3710 or CONIPUR 73 on the pre-treated **concrete** substrate using a paint roller or an airless spray equipment. Puddles have to be avoided.

After waiting for at least 10 minutes finish with a roller.

For **porous** substrates the primer has to be applied in **two** coats.

Mix the recycled rubber granules (grain size 1-4 mm) and CONIPUR 322 using a specially designed mixer. Apply the mixed material with a trowel or by a specially designed paver onto the primed surface.

Let the base layer cure. The curing process depends on temperature and humidity.

Apply the **first layer** of the pore sealer CONIPUR 203 with a consumption of approximately **1.4 kg/m²** using a straight edged trowel or squeegee. Make sure to close all pores of the elastic layer. Let the pore sealer cure.

Grind the surface to obtain an even surface. **Dry clean** the surface, taking care that all loose parts / grinding dust is removed.

Check for further **unevenness** with a **4 m straight edge** – the maximum level difference may **not exceed 2 mm**. Make sure to level out any higher unevenness before proceeding with the 2nd layer of the pore sealer.

Apply the **2nd layer** of CONIPUR 203 with an approximate consumption of **0.3 kg/m²** using a straight edged trowel or squeegee.

Let this layer cure before proceeding with the coating – this layer may **not** be **ground** to avoid opening pores again which may lead to bubbles in the coating.

2) Installation of the PUR sports surface

A **foam band** is fixed at the edges of the flooring to avoid the running-off of CONIPUR 3330.



Apply **CONIPUR 3330** (CONIPUR 227) with a consumption of approximately **2.2 kg/m²** (2.8 kg/m²) for a coating layer of 2mm by using a notched trowel or squeegee.

In case **CONIPUR 227** is used, the consumption rate is approximately– CONIPUR 227 is also applied with a notched trowel or squeegee.

Seal the cured surface with CONIPUR 67 using micro fibre roller (tuft size 10 - 12 mm), rolling out well to **eliminate roller marks**.

Keep the overlap areas to a minimum. It is necessary to **re-roll** freshly applied material with a second clean paint roller in order to obtain a uniform surface with a minimum of overlap marks.

Remarks

Details can be found in the Technical Manual as "*Processing Guidelines*".

The sports floor reaches its **final hardness** after 7 days and must not be mechanically stressed beforehand.

For application conditions please see our "*General Application Guidelines for Sports Systems Indoor and Outdoor*".

For further information, please refer to the technical data sheets of the products or contact our Technical Service.