

# CONIPUR HG *eco* - outdoor installation

## Point Elastic Sports Surfacing System

### Fields of application

multipurpose and school sports flooring

### System data

		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 must be used as a primer. A surface preparation by light blasting or grinding surface removal (incl. the necessary post-treatment) is usually required. For details please refer to our appropriate technical data sheet or consult our Technical Service.
	for concrete	<b>CONIPUR 73</b> (CONIPUR 3710)	0.20 kg/m <sup>2</sup> (0.5 kg/m <sup>2</sup> )	rubber squeegee, paint roller	
Elastic Layer		<b>CONIPUR 111</b>  Prefabricated elastic layer	0.80 kg/m <sup>2</sup>	notched squeegee	The mat type must be approved by CONICA.
Pore sealer	first layer	<b>CONIPUR 220</b>  When using elastic mats $\geq 10$ mm, or in <b>multi-purpose use</b> plan of the sports hall flooring, an additional <b>reinforcement fabric</b> must be used (embedded with CONIPUR 220 FL, approximate consumption 0.7 kg/m <sup>2</sup> for the 1 <sup>st</sup> layer and for the intermediate layer approximately 0.3 kg/m <sup>2</sup> )	0.5-0.6 kg/m <sup>2</sup>	straight edged trowel	Further details about the reinforcing mesh can be found in the Technical Manual " <i>Installation of a Reinforcing Fabric</i> " or contact our Technical Service.  When installing an elastic layer > 9mm <b>CONIPUR 224 (N)</b> must be used.
	second layer	<b>CONIPUR 220</b>	0.3-0.4 kg/m <sup>2</sup>	straight edged trowel	This step is necessary to avoid <b>open pores</b> in the elastic layer which could lead to bubbles in the final coating layer.
Coating	wear layer	<b>CONIPUR 3330</b> (CONIPUR 227)	2.2 kg/m <sup>2</sup> (2.8 kg/m <sup>2</sup> )	notched squeegee	Thickness of the <b>elastic layer</b> limited to $\leq 9$ mm. For elastic layers > 9mm <b>CONIPUR 224 (N)</b> must be used - The <b>flatness</b> of the subbase when using <b>CONIPUR 3330</b> may not exceed a tolerance of 2 mm measured with a straight edge of 4 m in order to prevent the run-off of the coating. Furthermore we recommend to fix a self-adhesive foam band is along the edges.
Sealing lacquer		<b>CONIPUR 2210</b>	0.15 kg/m <sup>2</sup>	sprayed	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	<b>CONIPUR 3100</b>	15 g/m	paint roller (paint-brush)	Critical colours regarding coverage must be applied twice.
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**Total thickness of the system**  $x + 2$  mm,  $x$  = thickness of the elastic layer, limited to  $\leq 9$  mm, else the coating CONIPUR 224 (N) must be used

**The installation of this system can only be done under dry conditions – please refer to the technical data sheets showing the range of temperature and relative humidity to avoid installation difficulties!**

### 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.

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/mm<sup>2</sup>.

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.

During installation, the climatic conditions according to the relevant product data sheets need to be kept. The product data sheets show the range of temperature and relative humidity of the air where the products will perform as indicated.

The installation of this flooring may only be done when no rain is expected to avoid foaming of the product(s).

To protect the flooring from penetrating water we recommend to install the system into a frame – another option is to install an in-situ elastic layer instead of the pre-fabricated elastic layer - for further details please do not hesitate to contact us.

When applying CONIPUR 3330, the tolerance for the evenness of the subbase must not exceed 2 mm measured with a straight edge of 4 m. 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.

For the application of CONIPUR 227 we refer to the DIN 18202, 2005-10 Table 3, line 4 for the requirements of the flatness of the subfloor

### Application

Apply primer CONIPUR 3710 or CONIPUR 73 on the pre-treated concrete substrate (in case of asphalt no bonding primer is needed) using a paint roller or elastic squeegee. After waiting for at least 10 minutes finish with a roller. For porous substrates, the primer has to be applied in two coats.

Apply adhesive CONIPUR 111 with a notched trowel onto the primed surface and embed the pre-cut rubber mat in the fresh CONIPUR 111.

The lengths of the mat are held in place by using weights, paying particular attention to the joints. It is very important that there are no open joints.

Roll over the surface after 30-60 minutes (depending on the temperature) using a 50 kg roller. The weights are left on the mat until the adhesive has fully cured (normally overnight).

Seal the pores of the elastic layer by applying CONIPUR 220, using a straight edged trowel or a squeegee.

In order to ensure a 100 % seal of the elastic layer apply approx. 0.3 kg/m<sup>2</sup> CONIPUR 220 onto the sealed surface, using a notched trowel or straight edge trowel or squeegee.

After overnight cure CONIPUR 3330 (CONIPUR 227) is applied by using a notched trowel or squeegee.

Seal the surface with CONIPUR 2210 (anti-skid) using perlon or micro fibre roller, rolling out well to eliminate roller marks. The application with an airless spraying machine is – depending on the surroundings – easier.

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

When using [elastic mats](#) with a layer thickness of more than [10 mm](#), or in multi-purpose use plan of the sports hall flooring, an additional [reinforcement fabric](#) must be used.

The sports floor reaches its [final hardness](#) after 7 days and must not be mechanically stressed beforehand.

Details can be found in the Technical Manual as "[Processing Guidelines](#)".

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