

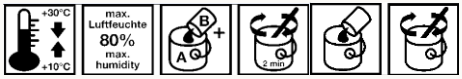
# CONIPUR HG *protect+*

Flame Retardant, Low Emission, Point Elastic Indoor Sports Surfacing System  
IHF, BWF and FIBA Approved

## Fields of application

School sport halls, rooms for gymnastics – especially suitable for children and adolescents

## System data

		product	consumption	application	remarks
Primer	for asphalt	no primer necessary	-	-	In case of residual moisture > 4 %, CONIPUR 3785 must be used.
	for concrete	<b>CONIPUR 3710</b> (CONIPUR 73)	0.50 kg/m <sup>2</sup> (0.20 kg/m <sup>2</sup> )	paint roller	
		A <a href="#">surface preparation</a> by light blasting or grinding surface removal (incl. the necessary post-treatment) is required.			
Elastic Layer		<b>CONIPUR 111</b>	0.80 kg/m <sup>2</sup>	notched trowel	<a href="#">Approved</a> mat types: CONIPUR mat (G31), CONIPUR mat (F40), REGUPOL 6015, 3512 BAZ-S FH (14 mm), SPORTEC premium
Pore sealer	1 <sup>st</sup> layer	<b>CONIPUR 220 FL</b>	0.6 kg/m <sup>2</sup>	metal trowel	When using elastic mats $\geq 10$ mm, or in <a href="#">multi-purpose use</a> plan of the sports hall flooring, an additional <a href="#">reinforcement fabric</a> must be used which is embedded with CONIPUR 220 FL.
	1 <sup>st</sup> layer	<b>CONIPUR 220 FL</b>	0.3 – 0.4 kg/m <sup>2</sup>	metal trowel	
		This step is necessary in order to cover the reinforcing fabric, however primarily to avoid <a href="#">open pores</a> in the elastic layer which could give rise to bubbles in the final coating layer.			
Coating	wear layer	<b>CONIPUR 3380 FL</b>	2.6 kg/m <sup>2</sup> = 2 mm 3.9 kg/m <sup>2</sup> = 3 mm thickness	notched squeegee	For a higher thickness of the coating layer the consumption can be adjusted accordingly
		(CONIPUR 224 FL)	(2.7 kg/m <sup>2</sup> = 2mm, 4.0 kg/m <sup>2</sup> = 3mm)	(notched aluminium squeegee)	(CONIPUR 224 FL is only available in <b>grey</b> )
					

<b>Sealing lacquer</b>	<p><b>CONIPUR 3202 W</b>  <b>CONIPUR 3210 W</b>          CONIPUR 3202 W AB      0.13–0.15 kg/m<sup>2</sup>    paint roller          CONIPUR 3210 W AB</p> <div style="display: flex; justify-content: space-around; align-items: center;"> </div> <p>The alternative top coats reduce the spread of germs over the floor and do not provide a breeding ground for microorganisms.</p>	<p>Critical colours regarding coverage must be applied repeatedly until opacity is achieved - Critical colours regarding discolouring must be fixed with a transparent sealing lacquer.</p> <p>CONIPUR 3210 W with even lower emission.</p>
<b>Line Paint</b>	<p><b>CONIPUR 3100</b>      15 g/m      paint roller / paint brush</p>	<p>Critical colours regarding coverage must be applied twice.</p>

**Total thickness of the system**       $x + 2$  mm,  $x$  = thickness of the elastic layer  
 $x \geq 10$  mm only with reinforcement fabric

**Selected technical properties**

		Thickness in mm	result	requirement	remarks
<b>EN 14904</b>	Shock absorption	7 + 2 9 + 2 14 + 3	22-31 % (P1) 28 % (P1) 55 % (P3)	25 -75 %	
	Standard deformation		≤ 0.35 mm	≤ 5 mm	
	Rolling load		1500	1500	Data taken from EN test reports. <a href="#">Elastic layer</a> as specified in test report.
	Impact resistance	Thickness of the elastic layer at least 6 mm, maximum 14 mm	≥ 10 Nm	≥ 8 Nm	Using different types of elastic layers will result in different results.
	Residual impression		≤ 0.35 mm	≤ 0.5 mm	
	Ball rebound		≥ 98 %	≥ 90 %	
	Sliding properties		82-91	80-110	

*Test reports can be downloaded from our website or requested from the sales representative responsible for you.*

All technical data have been taken from test reports and refer to the main products. The values vary depending on the substrate and application conditions, as well as when using alternative products.

**test reports / certificates available**

**fire behaviour**



**emission / VOC**



**declaration of Performance**

**CONIPUR HG protect+**  
14+3mm



## 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 **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.

The tear resistance of the substrate must be at least 1.0 N/mm<sup>2</sup>.

A concrete sub-base must contain a moisture barrier (damp proof membrane **D.P.M.**).

The **residual moisture** of the subbase must not exceed 4 %.

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.

Concerning the flatness of the subfloor, we refer to the DIN 18202, 2005-10 Table 3, line 4.

## 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 approximately 0.7 kg/m<sup>2</sup> **CONIPUR 220 FL**, using a metal trowel or a squeegee.

Before continuing, visually assess the area and re-work where there are bubbles and air pockets. These have to be re-worked.

In order to ensure a 100 % seal of the elastic layer apply a **second layer** of approx. 0.3 kg/m<sup>2</sup> **CONIPUR 220 FL**.

After curing, visually assess the surface again for bubbles and air pockets.

Only if the surface is without defaults, **CONIPUR 3380 FL** is applied using a **notched squeegee**.

**CONIPUR 3380 FL** is easier to apply as **CONIPUR 224 FL**, therefore a normal notched squeegee can be used for the application.

In case of **CONIPUR 224 FL** a notched **aluminium squeegee** must be used.

### Important

Due to the comparatively high viscosity of **CONIPUR 224 FL** the application **must** be done with a notched **aluminium squeegee**.

The use of a pin or a rubber squeegee is **not** recommended, as the coating can not be distributed evenly with these tools. This in turn will result in an uneven surface ("waves", traces of the squeegees) which will not be levelled by the application of the following coating / top coat.

Seal the surface with **CONIPUR 3202 W** or **CONIPUR 3210 W** (or the AB alternatives) by 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.

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

### Remarks

When using **elastic mats** with a layer thickness of **10 mm** or higher or for a **multi-purpose use** of the sports hall flooring, an additional **reinforcement** fabric must be used.

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

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



**CE-Label:**  
see Declaration of Performance