


# CONIPUR HG flex *pure*

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

## Fields of application

multipurpose sports halls, school sports

## System data

		Product	Consumption	Application	Remarks
Primer	for asphalt	no primer necessary	-	-	In case of concrete moisture > 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 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> 0.50 kg/m <sup>2</sup>	squeegee, paint roller	
Elastic Layer		<b>CONIPUR 111</b>  Prefabricated foam mat	0.80 kg/m <sup>2</sup>	notched squeegee	For test results Greiner PKR 310 in 9mm has been used
Pore sealer	first layer	<b>CONIPUR 220</b>	0.60 kg/m <sup>2</sup>	Straight edged trowel	Details can be found in the Technical Manual as " <i>Processing Guidelines</i> " or contact our Technical Service.  This step is necessary in order to cover the reinforcing fabric, however primarily to avoid <b>open pores</b> in the elastic layer which could give rise to bubbles in the final coating layer.
	second layer	<b>CONIPUR 220</b>	0.3 - 0.4 kg/m <sup>2</sup>	Straight edged trowel	
Coating	wear layer	<b>CONIPUR 3340</b>	2.6 kg/m <sup>2</sup> = <b>2mm</b> 3.9 kg/m <sup>2</sup> = <b>3mm</b> thickness	notched squeegee	
Sealing lacquer		<b>CONIPUR 3202 W</b> (or CONIPUR 3202 W extra mat)	0.13 - 0.15 kg/m <sup>2</sup>	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		<b>CONIPUR 3100</b>	15 g/m	Paint roller (paint-brush)	Critical colours regarding coverage must be applied twice.

## Total thickness of the system

9 + 2 mm, 9 = thickness of the elastic layer

### Selected technical properties

		Thickness in mm (elastic layer + coating)	Result	Requirement	Remarks
<b>EN 14904</b>	Shock absorption	9 + 2	40 % (P2)	25 -75 %	Data taken from EN test reports. Elastic layer as specified in test report.  For use of other elastic layers please consult our Technical Service.
	Resistance to wear	9 + 2	23 mg	max. 80 mg	
	Standard deformation	9 + 2	1.8 mm	≤ 5 mm	
	Rolling load	9 + 2	1500	1500	
	Impact resistance at 10 °C	9 + 2	14 Nm	≥ 8 Nm	
	Residual impression	9 + 2	0.15 mm	≤ 0.5 mm	
	Ball rebound	9 + 2	99 %	≥ 90 %	
	Sliding properties	9 + 2	108	80-110	

\* Test certificates can be downloaded from our webpage or requested from the Technical Service.

All technical figures given above are taken from test reports and refer to the main products. Depending on the substrate and application conditions or in case of using alternative products, results vary.

#### test reports / certificates available

emission / VOC / M1



CONIPUR HG flex pure  
9 + 2 mm



Declaration of Performance



\*Please see our web-page or contact our Technical Service to obtain country specific test reports / test certificates.

### 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 of the subbase 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 products is between 15 and 25 °C before and during installation.

With regard to 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 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 3340 is applied using a notched trowel or squeegee.

Seal the surface with CONIPUR 3202 W using a micro fibre roller (tuft size 10 - 12mm), 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

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

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

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

### CE marking only when installed according to the system data sheet

### CONIPUR HG flex pure



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**SY/HG/FIP1/2018**

EN 14904:2006

point-elastic, low emission indoor sports flooring surface  
**CONIPUR HG flex pure**

EN 14904: E<sub>fl</sub> - 23 mg – 108 – 40% - 1500N – E1

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	E <sub>fl</sub>	EN 14904
Resistance to wear	23 mg	EN 14904
Friction	108	EN 14904
Force reduction	40 %	EN 14904
Rolling load without damage	1500N	EN 14904
Release of dangerous substances	class E1	EN 14904