

CONIPUR HG *flex*

Highly Flexible 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 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 usually required. For details, please refer to our appropriate technical data sheet or consult our Technical Service.
	for concrete:	CONIPUR 73 (CONIPUR 3710)	0.20 kg/m ² (0.50 kg/m ²)	CONIPUR 73 (CONIPUR 3710)	
Elastic Layer		CONIPUR 111 Prefabricated rubber granule mat	0.80 kg/m ²	notched squeegee	The mat type must be approved by CONICA.
Pore sealer	first layer	CONIPUR 220 FL (CONIPUR 220) Details can be found in the Technical Manual under "Processing Guidelines" or contact our Technical Service.	0.70 kg/m ² (0.60 kg/m ²)	straight edged trowel	An additional reinforcement fabric must be used which is embedded preferably with CONIPUR 220 FL (CONIPUR 220).
	second layer	CONIPUR 220 FL (CONIPUR 220)	0.3 – 0.4 kg/m ²	straight edged trowel	This step is necessary in order to cover the reinforcing fabric, however primarily to avoid open pores in the elastic layer which could give rise to bubbles in the final coating layer.
Coating	wear layer	CONIPUR 226	2.6 kg/m ² = 2mm 3.9 kg/m ² = 3mm thickness	Notched squeegee	For a higher thickness of the coating layer the consumption can be adjusted accordingly
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 $x + 2$ mm, x = thickness of the elastic layer
 $x \geq 12$ mm with reinforcement fabric

Selected technical properties

		Thickness in mm (elastic layer + coating)	Result	Requirement	Remarks
EN 14904	Shock absorption	12+2 12+3	45 % 45 %	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.
	Standard deformation	12+2 12+3	2.9 mm 2.8 mm	≤ 5 mm	
	Rolling load	All thicknesses	1500	1500	
	Impact resistance at 10 °C	12+2 12+3	9 Nm 13 Nm	≥ 8 Nm	
	Residual impression	12+2 12+3	0.23 mm 0.22 mm	≤ 0.5 mm	
	Ball rebound	All thicknesses	99 %	≥ 90 %	
	Sliding properties	All thicknesses	96-97	80-110	
DIN V 18032-2	Shock absorption	12+2 12+3	48 % 48 %	Kat. I: mind. 51 % Kat. II: mind. 45 %	Data taken from DIN test reports. Elastic layer as specified in test report. For use of other elastic layers, please consult our Technical Service.
	Standard deformation	12+2 12+3	2.9 mm 2.8 mm	≤ 3.5 mm	
	Rolling load	All thicknesses	1000 N	1000 N	
	Impact resistance at 10 °C	12+2 12+3	9 Nm 14 Nm	≥ 8 Nm	
	Residual impression	12+2 12+3	0.23 mm 0.28 mm	≤ 0.5 mm	
	Ball rebound	All thicknesses	99 %	≥ 90 %	
	Sliding properties	All thicknesses	0.46μ	0.4-0.6 μ	

* 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.

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 **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 CONIPUR 220 FL, using a straight edged trowel or a squeegee.

In order to ensure a 100 % seal of the elastic layer apply approx. 0.3 kg/m² CONIPUR 220 FL onto the sealed surface, using a straight edge trowel or squeegee.

After overnight cure, CONIPUR 226 is applied using a notched trowel or squeegee.

Seal the surface with CONIPUR 67 using micro fibre roller, 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

When using **elastic mats** with a layer thickness of more than **12 mm**, or in multi-purpose use plan of the sports hall flooring, an additional **reinforcement fabric** must be used.

Details can be found in the Technical Manual under "*Processing Guidelines*" or contact our technical service.

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.

CE marking only when installed according to the system data sheet

CONIPUR HG flex



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SY/HG/F1/2013

EN 14904:2006

point-/highly-elastic indoor sports flooring surface
CONIPUR HG flex

EN 14904: E_{fl} - 32 mg – 97/96 – 45% - 1500N – E1

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	E _{fl} ¹⁺²	EN 14904
Resistance to wear	32 mg ¹⁺²	EN 14904
Friction	97 ² 96 ³	EN 14904
Force reduction	45 % ¹⁺²	EN 14904
Rolling load without damage	1500N ¹⁺²	EN 14904
Release of dangerous substances	class E1 ¹⁺²	EN 14904

¹ tested in the system with a ca. 12 mm elastic layer (Kraiburg Premium) + ca. 2mm PU coating

² tested in the system with a ca. 12 mm elastic layer (Kraiburg Premium) + ca. 3mm PU coating