

CONIPUR HG *sprint*

Spike Usable, Point Elastic Indoor Sports Surfacing System

Fields of application

multi-purpose sports halls, school sports halls, gymnastics rooms

Usage

CONIPUR HG sprint is a spike-usable sports flooring system for multi-purpose use.

When using spike-usable floor systems, the occurrence of some spike punctures is inevitable over time.

Due to the high tear resistance of the CONIPUR 3370 coating, there is no enlargement of the injury from the spike punctures. Further information in the product data sheet for the coating CONIPUR 3370

We recommend pyramidal spikes with a maximum length of 5mm to ensure a longer shelf life during use.



These are manufactured, for example, by the company Omni-Lite in the USA - further information at <http://www.omni-lite.com>.


The normally used steel spikes for athletic tracks are **not** suitable for this type of multipurpose sports hall.

In highly frequented and mechanically highly stressed areas there will be damages, which can be repaired locally if necessary.

A sports flooring made with CONIPUR 3370 **can be used** – also **with spikes** - after the usual curing time (approx. **7 days after sealing**).

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 must be used as a primer.
	for concrete	CONIPUR 3710 (CONIPUR 73)	0.50 kg/m ² (0.20 kg/m ²)	paint roller / squeegee	
	A surface preparation by light blasting or grinding surface removal (incl. the necessary post-treatment) is usually required.				
Elastic Layer		CONIPUR 111 prefabricated composite foam mat	0.80 kg/m ²	notched squeegee (B2)	CONIPUR mat (F40) or Greiner PKR 310, 9 or 12 mm
Pore sealer	first layer	CONIPUR 220 (CONIPUR 220 FL)	0.5 - 0.6 kg/m ²	straight edged trowel	The application in two coats is necessary to close all pores of the elastic layer, which might lead to bubbles in the surface.
	second layer	CONIPUR 220 (CONIPUR 220 FL)	0.3 - 0.4 kg/m ²	straight edged trowel	
Coating	wear layer	CONIPUR 3370	4.4 kg/m ²	pin or toothed squeegee	Application in one layer

Sealing lacquer		CONIPUR 3210 W	0.13 – 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 $x + 4$ mm, x = thickness of the elastic layer

Selected technical properties

		Thickness in mm	Result	Requirement	Remarks
EN 14904	Shock absorption	9+4 12+4	Type 2 Type 2	$\geq 25 - < 35\%$ (Type 1) $\geq 35 - < 45\%$ (Type 2) $\geq 45\%$ (Type 3)	
	Standard deformation	9+4 12+4	Type 1 Type 2	≤ 2.0 mm (Type 1) ≤ 3.0 mm (Type 2) ≤ 3.5 mm (Type 3)	
	Rolling load		1500 N	1500 N	
	Impact resistance		conform	≥ 8 Nm	Exact values in the corresponding test report.
	Residual impression		conform	≤ 0.5 mm	Elastic layer as specified in test report.
	Ball rebound		conform	$\geq 90\%$	Using other than the specified elastic layers will change the values achieved
	Sliding properties		conform	80 - 110	
DIN 18032 / NBI	Spike penetration		conform	≥ 1000 N	
	Tensile strength	coating	conform	≥ 12 N/mm ²	
	Elongation at break	coating	conform	$\geq 300\%$	

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.

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 substrate to be coated must be secured against rising damp (pressing water).

The substrate to be coated must have an average adhesive tensile strength of at least 1.5 N/mm² (verification e.g. with Herion device, tensile speed 100 N/s). Otherwise, substrate preparation by shot-blasting, high-pressure or ultra-high-pressure water jetting, milling or surface-removing sanding (incl. the respective necessary after-treatment) is necessary.

The residual moisture of the substrate must not exceed 4 %. The concrete must be sealed off from the substrate (e.g. with a foil).

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, Table 3, line 4.

Application

CONIPUR 3710 or CONIPUR 73 is applied to the prepared concrete substrate (no primer is used on asphalt) with a paint roller or rubber squeegee. Avoid the formation of puddles! If necessary, rework with a roller afterwards.

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

Apply adhesive CONIPUR 111 with a notched trowel (B2) onto the primed concrete (unprimed asphalt) surface and embed the pre-cut elastic mat in the fresh CONIPUR 111.

The ends and joints of the elastic mat are held in place by using weights, paying particular attention to the joints. There must be 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 twice, using a straight edged trowel or a squeegee.

For the first layer CONIPUR 220 the consumption is approximately 0.5 - 0.6 kg/m², for the second layer approximately 0.3 - 0.4 kg/m².

After curing apply approx. 4.4 kg/m² CONIPUR 3370 onto the pore sealed surface, using a pin or toothed squeegee.

Seal the surface with CONIPUR 3210 W using micro fibre roller (tuft size 10 – 12 mm), rolling out well to eliminate roller marks.

The overlapping areas with the preceding line should be kept as small as possible, longer connection times should be avoided. Subsequent finishing with a clean paint roller is necessary in any case.

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

Remarks

Further information on the use of the individual products can be found in the corresponding product data sheets.

Further information on application and application conditions can be found in the *“General Application Guidelines for Sports Systems Indoor and Outdoor”*.

CE-Label:

see Declaration of Performance



UKCA-Label:

see Declaration of Conformity

