CONIPUR HG *sprint*

Spike Usable Point Elastic Indoor Sports Surfacing System for Sports IHF, BWF and FIBA Approved

Fields of application multipurpose sports halls, school sports

Usage

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

Nevertheless spike traces can not be avoided. Due to the high tear resistance of the coating CONIPUR 236, small punctual injuries will not increase.

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 236 can be used for normal gymnasium traffic after usual times (approx. 7 days after sealing). However, resilience with spikes is only possible after 8 weeks.

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	**CONIPUR 73**	0.20 kg/m²	Squeegee, paint roller	
Elastic Layer		**CONIPUR 111** Prefabricated rubber granule mat	0.80 kg/m²	Notched squeegee	The mat type must be approved by CONICA.
Pore sealer		**CONIPUR 220**	0.80 kg/m²	Straight edged trowel	
Coating	Intermediate layer	**CONIPUR 236**	2.5 kg/m²	pin squeegee	This step is necessary in order to avoid open pores in the elastic layer which could give rise to bubbles in the final coating layer.
	Top layer	**CONIPUR 236**	2.5 kg/m²	pin squeegee	
Sealing lacquer		**CONIPUR 67**	0.15 kg/m²	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 (elastic layer + coating)	Result	Requirement	Remarks
DIN V 18032-2	Shock absorption	10+4 14+4	42 % 51 %	≥ 51 % (Category 1) ≥ 45 % (Category 2)	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	10+4 14+4	2.4 mm 3.0 mm	≤ 3.5 mm (Category 1) ≤ 3.0 mm (Category 2)	
	Rolling load	10+4 14+4	1000 1000	1000 1000	
	Impact resistance	14+4	> 30 Nm	≥ 8 Nm	
	Residual impression	14+4	0.16 mm	≤ 0.5 mm	
	Ball rebound	10+4 14+4	98 % 97 %	≥ 90 %	
	Sliding properties	10+4 14+4	0.45 µ 0.50 µ	0.40-0.60	
DIN V 18035-6	Spike resistance	14+4	Class 1	No specification for indoor halls	Data taken from a test report.
Norwegian Specification	Spike penetration	10+4 14+4	1200 N 1000 N	1200 N 1000 N	Data taken from test reports.
	Tensile strength (coating)		12.4 MPa	12 MPa	
	Elongation at break (coating)		370 %	300 %	

***** *Test certificates can be downloaded from our website 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 may vary.

Important

The installation has to be accompanied by a CONICA Supervisor - please contact our technical service in time

A sports flooring made with CONIPUR 236 can be used for normal gymnasium traffic after usual times (approx. 7 days after sealing). However, resilience with spikes is only possible after 8 weeks.

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 73 on the pre-treated concrete substrate (in case of asphalt no bonding primer is needed) using a paint roller or elastic squeegee. Re-roll with a roller.

For porous substrates, CONIPUR 73 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.

As a first coating layer apply approx. 2.5 kg/m² CONIPUR 236 onto the sealed surface, using a pin squeegee.

After overnight cure the remaining CONIPUR 236 is applied using a pin squeegee.

Seal the surface with CONIPUR 67 using “Microtex” rollers (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.

Remarks
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 marking only when installed according to the system data sheet

CONIPUR HG sprint

CE

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SY/HG/S1/2013

EN 14904:2006

point-elastic indoor sports flooring surface, appropriate for spike usage
CONIPUR HG sprint

EN 14904: F_{fl} - NPD – NPD - NPD - NPD – E1

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	F_{fl}	EN 14904:2006
Resistance to impact	NPD[1]	EN 14904:2006
Friction	NPD[1]	EN 14904:2006
Force reduction	NPD[1]	EN 14904:2006
Rolling load without damage	NPD[1]	EN 14904:2006
Release of dangerous substances	class E1	EN 14904:2006

[1] NPD = no performance declared

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