


CONIPUR HG *protect+*


Flame Retardant Low Emission 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 required. For details please refer to our appropriate technical data sheet or consult our Technical Service
	for concrete	CONIPUR 73	0.20 kg/m ²	squeegee, paint roller	
Elastic Layer		CONIPUR 111 Prefabricated elastic layer	0.80 kg/m ²	notched squeegee	Approved mat types: REGUPOL 6015, REGUPOL 8010, SPORTEC premium
Pore sealer		CONIPUR 220 FL	0.6 kg/m ²	straight edged trowel	When using elastic mats ≥ 10 mm, or in multi-purpose use plan of the sports hall flooring, an additional reinforcement fabric must be used which is embedded with CONIPUR 220 FL. Details can be found in the Technical Manual as "Processing Guidelines" or contact our Technical Service.
	Intermediate layer	CONIPUR 220 FL	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	Top layer	CONIPUR 224 FL 	2.7 kg/m ² = 2mm 4.0 kg/m ² = 3mm thickness	Notched aluminium squeegee	For a higher thickness of the coating layer the consumption can be adjusted accordingly. This coating is only available in grey – for details regarding coverage of the following top coat please contact our Technical Service. The use of an aluminium squeegee is strongly recommended to avoid an uneven surface

Sealing lacquer		CONIPUR 3202 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 $x + 2 \text{ mm}$, x = thickness of the elastic layer
 $x \geq 10 \text{ mm}$ only with reinforcement fabric

Selected technical properties

		Thickness in mm (elastic layer + coating)	result	requirement	remarks
EN 14904	Shock absorption	7 + 2 9 + 2 14 + 3	22-31 % (P1) 28 % (P1) 55 % (P3)	25 -75 %	
	Standard deformation	7 + 2 9 + 2 14 + 3	0.7-1.4 mm 1.2 mm 3.3 mm	≤ 5 mm	
	Rolling load	all thicknesses	1500	1500	
	Impact resistance	7 + 2 9 + 2 14 + 3	13-15 Nm 10 Nm 10 Nm	≥ 8 Nm	Data taken from EN test reports. Elastic layer as specified in test report.
	Residual impression	7 + 2 9 + 2 14 + 3	0.26-0.33 mm 0.15 mm 0.16 mm	≤ 0.5 mm	For use of other elastic layers please consult our Technical Service.
	Ball rebound	all thicknesses	≥ 98 %	≥ 90 %	
	Sliding properties	all thicknesses	82-91	80-110	

* 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.

test reports / certificates available

fire behaviour



emission / VOC



declaration of Performance

CONIPUR HG protect+
14+3mm



*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 **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.

After waiting for at least 10 minutes finish 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 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 edged trowel.

After overnight cure CONIPUR 224 FL is applied using a notched **aluminium squeegee**.

Important

Due to the comparatively high viscosity of the flame retardant coating the application **must** be done with a notched **aluminium squeegee**.

The use of a pen-shaped 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 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.

Remarks

When using elastic mats with a layer thickness of 10 mm or higher 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 as "Processing Guidelines" or contact our technical service.

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 one of the following systems

CONIPUR HG protect+



1658

CONICA AG, Industriestr. 26, 8207 Schaffhausen, Switzerland

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1658-CPR-3064

SY/HG/PR1/2013

EN 14904:2006

point-elastic, low emission, flame retardant indoor sports flooring surface

CONIPUR HG protect+

EN 14904: B_{fl}-s1¹/C_{fl}-s1⁵ - 31mg/26mg/32mg/31mg - 82/1072/87/91 - 22%/31%/28%/55% - 1500N - class E1

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	B _{fl} -s1 ¹ C _{fl} -s1 ⁵	EN 14904
Resistance to wear	31 mg ² 26 mg ³ 32 mg ⁴ 31 mg ⁵	EN 14904
Friction	82 ² 102 ³ 87 ⁴ 91 ⁵	EN 14904
Force reduction	22 % ² 31 % ³ 28 % ⁴ 55 % ⁵	EN 14904
Rolling load without damage	1500N ¹⁻⁵	EN 14904
Release of dangerous substances	class E1 ¹⁻⁵	EN 14904

¹ tested in the system with a ca. 3-10mm elastic layer (prefabricated granule mat) + ca. 2mm PU coating

² tested in the system with a ca. 7mm elastic layer (Regupol 6015) + ca. 2mm PU coating

³ tested in the system with a ca. 7mm elastic layer (Kraiburg Premium) + ca. 2mm PU coating

⁴ tested in the system with a ca. 9mm elastic layer (Regupol 6015) + ca. 2mm PU coating

⁵ tested in the system with a ca. 14mm elastic layer (Regupol 3512) + ca. 3mm PU coating

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As all CONICA guidelines maybe updated as needed, it is user's responsibility to obtain the most recent issue. Registered users can obtain the actual data sheets from our webpage. Hard copies are available upon request.