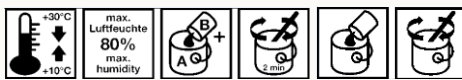



CONIPUR AE *protect+*

Flame Retardant Low Emission Area Elastic Indoor Sports Surfacing System

Fields of application multipurpose sports halls

System data

		Product	consumption	application	remarks
Spreading plate	or	Wooden matrix glue	25 - 50 mm approx. 40 g/m ²	tongue and groove gluing	The wooden sub base construction and the glue must be approved by CONICA. Moisture content of the wood < 7 % . Humidity between 35 - 65 %. Before the application process the surface must be grinded and cleaned thoroughly.
		CONIPUR WBI wooden matrix, 15 + 15 mm	<i>System build-up and information on the installation please see separate system data sheet</i>		
<i>grinding of the wooden surface is necessary in any case</i>					
Pore sealer		CONIPUR 220	0.3 kg/m ²	metal trowel or rubber wiper	It must be ensured, that the joints and the entire wood surface are completely sealed
Coating	Intermediate layer	CONIPUR 220	0.3 – 0.4 kg/m ²	metal trowel or rubber wiper	This step is necessary in order to avoid open pores from the sub base which could give rise to bubbles in the final coating layer
Coating	Top layer	CONIPUR 3380 FL	2.6 kg/m ² = 2 mm 3.9 kg/m ² = 3 mm thickness	notched squeegee	For a higher thickness of the coating layer the consumption can be adjusted accordingly.
		(CONIPUR 224 FL)	(2.7 kg/m ² = 2mm 4.0 kg/m ² = 3mm)	(notched aluminium squeegee)	
					
Sealing lacquer		CONIPUR 3202 W	0.13 – 0.15 kg/m ²	paint roller	Critical colours regarding coverage must repeatedly be applied until opacity is achieved. Critical colours with respect to 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 + 2mm, x = thickness of the wooden matrix system

Selected technical properties

		Thickness in mm (sub base + coating)	result	requirement	remarks
EN 14904	Shock absorption	approx. 32 mm	55 %	Type 3: ≥45 <55 % Type 4: ≥55 <75 %	Data taken from EN test reports. Wooden matrix as specified in the test report.
	Vertical deformation	approx. 32 mm	3.3 mm	Type 3: ≥1.8 <5,0 (mm) Type 4: ≥2.3 <5.0 (mm)	
	Rolling load	approx. 32 mm	1500 Nm	1500 Nm	
	Residual impression	approx. 32 mm	0.00 mm	≤ 0.5 mm	
	Ball rebound	approx. 32 mm	97 %	≥ 90 %	
	Sliding properties	approx. 32 mm	102	80-110	

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.

test reports / certificates available

fire behaviour



emission / VOC



Declaration of Performance



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**.

With regard to the [flatness](#) of the subfloor, we refer to the DIN 18202, 2005-10 Table 3, line 4.

Application

Elastic layer

Underneath the wooden sub-base an [elastic layer](#) of approx. **15mm** (e.g. foam mat) must be installed. The foam mat must be fixed pointwise to prevent it from moving.

On top of the foam mat a foil made of polyethylene is laid over the complete floor. The foil serves as additional moisture barrier and facilitates the working with the wooden plates.

Distribution plate

Beginning with the first line of the load distribution plate the groove-side has to be orientated to the wall.

The distance to the wall should be ensured by installing [spacer blocks](#) with 15 mm thickness. After laying the surface, the spacer blocks have to be removed, the edge distance must be maintained to the ground to provide a

possibility for the floor to expand. The [expansion joints](#) must be guaranteed for long term.

The second line of the load distribution plate begins with the remaining piece of the first line.

The offset amount should be minimum 400 to maximum 500 mm (if not possible cut a new element). The other rows of the load distribution plates are carried out analogously.

The [position of the sleeves](#) has to be marked clearly on the distribution plate and cut out afterwards.

The load distribution plates are [glued](#) together in the tongue and groove connection. After the application, the load distribution plates are pressed thoroughly together. The [curing time](#) of the glue is approximately 24 hours. During that time, the floor must not be charged.

After curing, the panels are ground and - after cleaning - [pore sealed](#) with 0.3 kg/m² [CONIPUR 220](#), by using a straight edged trowel to close the pores and joints.

Afterwards grind and clean again if necessary. Before continuing, [visually assess](#) the area and re-work where uneven or where bubbles and air pockets.

Coating layer

In order to ensure a 100 % seal of the sub base a [second coat](#) of approx. 0.3 kg/m² of [CONIPUR 220](#) must be applied.

After curing, visually assess the surface again. Unevenness needs to be ground, bubbles and air pockets have to be repaired before continuing.

Only if the surface is without defaults, [CONIPUR 3380 FL](#) is applied using a [notched squeegee](#).

[CONIPUR 3380 FL](#) is easier to apply as [CONIPUR 224 FL](#), therefore a normal notched squeegee can be used for the application.

When using [CONIPUR 224 FL](#) the application has to be done with an [aluminium squeegee](#).

Important

Due to the comparatively high viscosity [CONIPUR 224 FL](#) the application **must** be done with a [notched aluminium squeegee](#).

The use of a pin 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](#) 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.

The sports floor reaches its [final hardness](#) after [7 days](#) and must not be mechanically stressed before.

Remarks

For further application information please see our "[General Application Guidelines for Sports Systems Indoor and Outdoor](#)". For any further information, please see our product data sheets or contact our [Technical Service](#).

CE marking only when installed according to system data sheet

CONIPUR AE protect+



1658

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Schweiz

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1658-CPR-3063
SY/AE/PR1/2013
EN 14904:2006

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

CONIPUR AE protect+

EN 14904: C_{fi}-s1 - 32 mg – 102 – 55% - 1500N – E1

Essential characteristics	Performance	Harmonized technical specification
Reaction to fire	C _{fi} -s1	EN 14904:2006
Resistance to wear	32 mg	EN 14904:2006
Friction	102	EN 14904:2006
Force reduction	55 %	EN 14904:2006
Rolling load without damage	1500N	EN 14904:2006
Release of dangerous substances	class E1	EN 14904:2006