

CONIPUR AE eco

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 as well as the glue must be approved by CONICA. Moisture content of the wood < 7 %. Humidity during the installation must be 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	Intermediate layer	CONIPUR 220	0.3 kg/m ²	Straight edged trowel	Please make sure that the joints and the complete surface of the wood are covered completely.
		CONIPUR 220	0.3 – 0.4 kg/m ²	Straight edged trowel	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 225	2.6 kg/m ² = 2mm 3.8 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 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. 30 mm	55 %	Type 3: ≥45 <55 % Type 4: ≥55 <75 %	Data taken from EN test reports. Elastic layer as specified in test report. For use of other elastic layers and/or distribution plates please consult our Technical Service
	Vertical deformation	approx. 30 mm	3.3 mm	Type 3: ≥1.8 <5,0 (mm) Type 4: ≥2.3 <5.0 (mm)	
	Rolling load	approx. 30 mm	1500 Nm	1500 Nm	
	Residual impression	approx. 30 mm	0.00 mm	≤ 0.5 mm	
	Ball rebound	approx. 30 mm	97 %	≥ 90 %	
	Sliding properties	approx. 30 mm	81	80-110	

* 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 may 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**.

In regards 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. **15 mm** (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 grounded and - after cleaning - pore sealed with CONIPUR 220, by using a straight edged trowel or a squeegee.

Afterwards grind and clean again if necessary.

The **surface** must be **checked** carefully before laying the floor covering.

Coating layer

In order to ensure a 100 % **seal** of the sub base apply approx. 0.3 kg/m² CONIPUR 220 onto the surface, using a notched trowel or straight edge trowel or squeegee.

After overnight cure CONIPUR 225 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

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 system data sheet

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EN 14904:2006

Pore sealer for the installation of an area-elastic indoor sports flooring surface
CONIPUR AE eco

EN 14904: E_{fl} - 32mg – 81 – 55% - 1500N – E1

Essential characteristics	Performance	Harmonized technical specification
Reaction to fire	E _{fl}	EN 14904:2006
Resistance to wear	32 mg	EN 14904:2006
Friction	81	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