


CONIPUR CE *pure*

Low Emission Combined-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 ground 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>			
Elastic Layer		CONIPUR 111	0.8 kg/m ²	notched squeegee	The elastic layer must be approved by CONICA.
		Prefabricated elastic layer 4 -6 mm			
Pore sealer	1 st layer	CONIPUR 220	0.60 kg/m ²	straight edged trowel	The application in two layers is necessary to avoid open pores in the elastic layer which could give rise to bubbles in the final coating layer.
	2 nd layer	CONIPUR 220	0.3 – 0.4 kg/m ²	straight edged trowel	
Coating	wear layer	CONIPUR 224 (N1)	2.6 kg/m ² = 2mm 3.9 kg/m ² = 3mm thickness	notched squeegee	
Sealing lacquer		CONIPUR 3202 W CONIPUR 3210 W CONIPUR 3202 W AB CONIPUR 3210 W AB	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. CONIPUR 3210 W with even lower emission.
					
		The alternative top coats reduce the spread of germs over the floor and do not provide a breeding ground for microorganisms.			
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 mm, x = thickness of the wooden matrix system and the point elastic component (recommended 4 – 6 mm)

Selected technical properties

		Thickness in mm	Result	Requirement	Remarks
EN 14904	Shock absorption	Approx. 35 mm	58 %	Type 3: ≥45 <55 % Type 4: ≥55 <75 %	
	Standard deformation	Approx. 35 mm	4.0 mm	Type 3: ≥1.8 <5,0 (mm) Type 4: ≥2.3 <5.0 (mm)	Data taken from EN test reports.
	Rolling load	Approx. 35 mm	1500 Nm	1500 Nm	Elastic layer as specified in test report.
	Impact resistance at 10 °C	Approx. 35 mm	0.50 mm	≥ 8 Nm	For use of other elastic layers and/or distribution plates please consult our Technical Service
	Residual impression	Approx. 35 mm	97 %	≤ 0.5 mm	
	Sliding properties	Approx. 35 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

emission / VOC / M2



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 for the application of **CONIPUR 224 (N1)**.

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, there is no traffic allowed on the area.

Point elastic layer

After curing apply adhesive [CONIPUR 111](#) with a notched trowel onto the primed surface and embed the pre-cut elastic layer 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 with [CONIPUR 220](#) by using a straight edged trowel or a squeegee.

In order to ensure a 100 % seal of the elastic layer apply a second layer of approx. 0.3 kg/m² CONIPUR 220 onto the surface, using a straight edged trowel or a squeegee.

After overnight cure [CONIPUR 224 \(N1\)](#) is applied using a notched trowel or squeegee. The consumption is approximately 2.6 kg/m² to obtain a 2mm layer.

Seal the surface with [CONIPUR 3202 W](#) or [CONIPUR 3210 W](#) (or the AB alternatives) 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 spurned 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 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-Label:

see Declaration of Performance