



# CONIPUR CE *protect+*

Flame retardant, Low Emission Combined-Elastic Indoor Sports Surfacing System

Fields of application

multipurpose sports halls

System data

		Product	consumption	application	remarks
Spreading plate		<b>Wooden matrix system</b> Glue	25 - 50 mm approx. 40 g/m <sup>2</sup>	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.
	or	<b>CONIPUR WBI</b> wooden matrix, 15 + 15 mm	<i>System build-up and information on the installation please see separate system data sheet</i>		
Elastic Layer		<b>CONIPUR 111</b>	0.8 kg/m <sup>2</sup>	notched squeegee	The elastic layer (e.g. foam mat) must be approved by CONICA.
		Prefabricated elastic layer 4- 6 mm			
Pore sealer	first layer	<b>CONIPUR 220 FL</b>	0.6 kg/m <sup>2</sup>	straight edged trowel	The application in <b>two layers</b> is necessary to avoid <b>open pores</b> in the elastic layer which could give rise to bubbles in the final coating layer.
	second layer	<b>CONIPUR 220 FL</b>	0.3 – 0.4 kg/m <sup>2</sup>	straight edged trowel	
Coating	wear layer	<b>CONIPUR 3380 FL</b>	2.6 kg/m <sup>2</sup> = 2 mm 3.9 kg/m <sup>2</sup> = 3 mm thickness	notched squeegee	For a higher thickness of the coating layer the consumption can be adjusted accordingly  (CONIPUR 224 FL is only available in <b>grey</b> )
		(CONIPUR 224 FL)	(2.7 kg/m <sup>2</sup> = 2mm, 4.0 kg/m <sup>2</sup> = 3mm)	(notched aluminium squeegee)	
					
Sealing lacquer		<b>CONIPUR 3202 W</b>	0.13 – 0.15 kg/m <sup>2</sup>	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		<b>CONIPUR 3100</b>	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 (4 – 6 mm)

## Selected technical properties

		Thickness in mm (sub base + coating)	result	requirement	remarks
EN 14904	Shock absorption	ca. 35 mm	58 %	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
	Standard deformation	ca. 35 mm	4.0 mm	type 3: ≥1.8 <5,0 (mm) type 4: ≥2.3 <5.0 (mm)	
	Rolling load	ca. 35 mm	1500 Nm	1500 Nm	
	Residual impression	ca. 35 mm	0.16 mm	≤ 0.5 mm	
	Friction	ca. 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

fire behaviour



emission / VOC / M1



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, there is no traffic on the area allowed.

#### Point elastic layer

After curing apply adhesive [CONIPUR 111](#) with a notched trowel (B2) 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 0.6 kg/m<sup>2</sup> [CONIPUR 220 FL](#) by using a straight edged trowel or a squeegee.

Before continuing, visually assess the area and re-work where there are bubbles and air pockets. These have to be re-worked.

In order to ensure a 100 % seal of the elastic layer a [second layer](#) with approximately 0.3 kg/m<sup>2</sup> [CONIPUR 220 FL](#) is applied.

After curing, visually assess the surface again for bubbles and air pockets.

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 applying [CONIPUR 224 FL](#) a [notched aluminium squeegee](#) must be used.

#### Important

Due to the comparatively high viscosity of the flame retardant coating [CONIPUR 224 FL](#) 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](#) using a 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.

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

#### 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 CE protect+**



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1658-CPR-3062  
**SY/CE/PR1/2013**  
EN 14904:2006

combined-elastic, low emission, flame retardant indoor  
sports flooring surface  
**CONIPUR CE protect+**

EN 14904: C<sub>fl</sub>-s1 - 19mg – 102 – 58% - 1500N – E1

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	C <sub>fl</sub> -s1	EN 14904:2006
Resistance to wear	19 mg	EN 14904:2006
Friction	102	EN 14904:2006
Force reduction	58 %	EN 14904:2006
Rolling load without damage	1500N	EN 14904:2006
Release of dangerous substances	class E1	EN 14904:2006