

CONIPUR AE *extreme wear*

Area Elastic Indoor Sports Surfacing System with enhanced wear coat

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>			
Coating	additional wear coat	CONIPUR 3330ew (transparent)	2.2 -6.6 kg/m ²	Notched squeegee	This layer should be at least 2mm up to a maximum of 6mm. (part A CONIPUR 3330ew, part B CONIPUR 3330)
Coating	Top layer	CONIPUR 224 (N)	2.6 kg/m ²	Notched squeegee	In case a low emission system is not required, CONIPUR 225 can be used as alternative.
Sealing lacquer		CONIPUR 3202 W	0.13 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. In case a low emission system is not required, CONIPUR 67 can be used as alternative.
Line Paint		CONIPUR 3100	15 g/m	Paint roller (paint-brush)	Critical colours regarding coverage must be applied twice. In case a low emission system is not required, CONIPUR 3100 can be used as alternative.

Total thickness of the system 15 + 15 + x + 2 mm, x = thickness of the layer CONIPUR 3330

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.

For the application of CONIPUR 3330ew, the tolerance in regards of the flatness of the subbase must not exceed **2mm measured** with a straight edge of **4mm**. Otherwise the coating will – due its viscosity – likely not / not sufficiently cover the high spots of the subbase. This will have a negative impact on the mechanical properties.

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 cleaned.

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

Additional wear coat

CONIPUR 3330ew is applied on the cleaned and dry surface. The **consumption** is approximately **1.1 kg/m² per mm thickness**. At least 2mm up to a maximum of 6mm can be applied in one layer.

A foam band fixed along the edges helps to avoid that CONIPUR 3330ew is running off the edges.



The application of CONIPUR 3330ew is done with a notched squeegee

Coating layer

After overnight cure CONIPUR 224 (N) is applied using a notched trowel or squeegee.

Seal the surface with CONIPUR 3202 W using a 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.

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EN 14904:2006

area-elastic, low emission indoor sports flooring surface
CONIPUR AE extreme wear

EN 14904: E_{fl} - NPD – NPD – NPD - 1 NPD – E1

Essential characteristics	Performance	Harmonized technical specification
Reaction to fire	E _{fl}	EN 14904:2006
Resistance to wear	NPD	EN 14904:2006
Friction	NPD	EN 14904:2006
Force reduction	NPD	EN 14904:2006
Rolling load without damage	NPD	EN 14904:2006
Release of dangerous substances	class E1	EN 14904:2006