CONIPUR CE *pure* Full PUR

Low Emission Combined-Elastic Indoor Sports Surfacing System with Liquid Foam Mat as Elastic Layer

Fields of application multipurpose sports halls

System data

		Product	Consumption	Application	Remarks
Spreading plate	or	**Wooden matrix** glue **CONIPUR WBI** wooden matrix, 15 + 15 mm	25 - 50 mm approx. 40 g/m²	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 %.
		grinding of the wooden surface and subsequent vacuuming is necessary in any case	*System build-up and information on the installation please see separate system data sheet*		
Primer		**CONIPUR 3710**	0.2 - 0.25 kg/m²	rubber squeegee	The primer is necessary to prevent any detachment of the subsequent PUR layer.
Elastic Layer		**CONIPUR 3335**	3.0 kg/m² = 4mm 4.5 kg/m² = 6mm	pin squeegee	This corresponds to a consumption of 0.75 kg/m². The elastic layer is normally 4 or 6mm thick. To avoid a running-off of the coating at the edges, a self-gluing foam strip is fixed on the wood along the edges.
		To mix the product a double head stirrer is most suitable – for large surfaces 2 agitating tools must be used to ensure a smooth installation After curing, the coating can be coated (within the recoating interval) without further preparation In the case of extendable stands, reinforcement must be installed in the area of the rollers.			
Coating	Top layer	**CONIPUR 224 (N1)**	2.6 kg/m² = 2mm 3.9 kg/m² = 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/m²	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 (15+15 mm) and the point elastic layer (recommended 4 – 6 mm)

Selected technical properties

		Thickness in mm	Result	Requirement	Remarks
in accordance with EN 14904	Shock absorption	approx. 36 mm	60 %	Type 3: ≥45 <55 % Type 4: ≥55 <75 %	Results taken from test report
	Standard deformation	approx. 36 mm	3.9 mm	Type 3: ≥1.8 <5,0 (mm) Type 4: ≥2.3 <5.0 (mm)	
	Rolling load	approx. 36 mm	1500 Nm	1500 Nm	
	Ball rebound	approx. 36 mm	99 %	≥ 90 %	
	Abrasion	approx. 36 mm	20 mg	max. 80 mg (sealer)	
	Sliding properties	approx. 36 mm	95	80-110	
	Resistance to impact	approx. 36 mm	19	≥ 8	
	Residual impression	approx. 36 mm	0.06 %	≤ 0.5 mm	

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

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.

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

The optimal temperature of the material before and during application is between 15 and 25 °C.

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 protection of the foam mat 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 loaded.

The surface has to be ground and vacuumed before the next step.

Grandstand reinforcement

Reinforcement is required in the area of the rollers of an extendable grandstand. For this purpose, a rubber mat (4 or 6 mm - depending on the thickness of the elastic layer) is glued after the primer has been applied.

The quantities of CONIPUR 111 adhesive and the rubber mat required for this must be calculated in addition..

Point elastic layer

CONIPUR 3710 is applied to the prepared wood using a rubber squeegee.

To avoid a running-off of the coating, a self-gluing foam strip is fixed onto the wood along the edges.

After that, CONIPUR 3335 is applied with a pin squeegee.

The pin squeegee should be set 1-2mm higher than the desired layer.

After overnight cure, CONIPUR 224 (N1) is applied using a notched trowel or squeegee.

The over-coating interval of 72 hours must not be exceeded. CONIPUR 3335 can not be ground, else the surface will be destroyed. Small failures need to be cut and pore sealed with CONIPUR 220.

Seal the surface with CONIPUR 3202 W or CONIPUR 3210 W (or the AB alternatives) which is applied by rolling with “Microtex” rollers (tuft size 10 - 12 mm). 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 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

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