


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 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> | | | |
| Elastic Layer | | CONIPUR 111 | 0.8 kg/m ² | Notched squeegee | The elastic layer must be approved by CONICA. Normally the elastic layer is 4-6mm thick. |
| | | Prefabricated elastic layer | | | |
| Pore sealer | Intermediate layer | CONIPUR 220 | 0.60 kg/m ² | Straight edged trowel | Recommended thickness of elastic mats 4-6mm This step is necessary in order to cover the reinforcing fabric, however primarily to avoid open pores in the elastic layer which could give rise to bubbles in the final coating layer. |
| | | CONIPUR 220 | 0.3 – 0.4 kg/m ² | Straight edged trowel | |
| Coating | Top layer | CONIPUR 224 (N) | 2.6 kg/m ² = 2mm 3.9 kg/m ² = 3mm thickness | notched squeegee | The flatness of the subbase may not exceed a tolerance of 2 mm measured with a straight edge of 4m in order to prevent the run-off of the coating. To avoid running-off of the coating a self-gluing foam band is fixed along the edges. |
| Sealing lacquer | | CONIPUR 3202 W | 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. |
| | |  | | | |
| 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 (sub base+ coating) | Result | Requirement | Remarks |
|----------------------|----------------------------|-------------------------------------|----------------------|--|---|
| EN 14904 | Shock absorption | Approx. 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 | Approx. 35 mm | 4.0 mm | Type 3: ≥1.8 <5,0 (mm) Type 4: ≥2.3 <5.0 (mm) | |
| | Rolling load | Approx. 35 mm | 1500 Nm | 1500 Nm | |
| | Impact resistance at 10 °C | Approx. 35 mm | 0.50 mm | ≥ 8 Nm | |
| | Residual impression | Approx. 35 mm | 97 % | ≤ 0.5 mm | |
| | Sliding properties | Approx. 35 mm | 102 | 80-110 | |
| DIN V 18032-2 | Shock absorption | Approx. 35 mm | 60 % | mind. 58 | Data taken from DIN V 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 | Approx. 35 mm | 4.0 mm | min. 3.0 max. 5.0 | |
| | Rolling load | Approx. 35 mm | 1500 Nm | 1500 Nm | |
| | Residual impression | Approx. 35 mm | 0.17 mm | max. 0.5 mm | |
| | Impact resistance at 10 °C | Approx. 35 mm | unaged/aged 19/19 | unaged/aged min.8 | |
| | Ball rebound | Approx. 35 mm | 98 % | mind. 90 % | |

* Test certificates can be downloaded from our webpage or requested from the Technical Service.

All technical details have been taken from test certificates and refer to the main products only. Depending on the substrate, conditions of application and usage of alternative products the values may change.

test reports / certificates available

emission / VOC / M2



Declaration of Performance



*Please see our web-page or contact our Technical Service to obtain country specific test reports / test certificates.

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 (N)**.

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 approx. 0.3 kg/m² CONIPUR 220 onto the surface, using a straight edged trowel or a squeegee.

After overnight cure CONIPUR 224 (N) 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 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.

Remarks

When using **elastic layers** with a layer thickness of more than **10 mm**, or in multi-purpose use plan of the sports hall flooring, an additional **reinforcement fabric** must be used. Details can be found in the Technical Manual as "*Processing Guidelines*" or contact our technical service.

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

CONIPUR CE pure



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EN 14904:2006

combined-elastic, low emission indoor sports flooring
surface

CONIPUR CE pure

EN 14904: E_{fl} - 19mg – 102 – 58% - 1500N – E1

| Essential characteristics | Performance | Harmonised technical specification |
|---------------------------------|-----------------|------------------------------------|
| Reaction to fire | E _{fl} | 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 |