


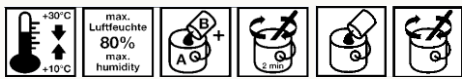
# CONIPUR KF *protect+*

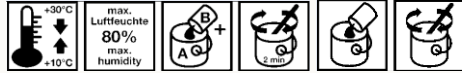

Flame Retardant Low Emission Mixed Elastic Indoor Sports Surfacing System  
FIBA Approved

## Fields of application

multipurpose sports halls, school sports without underfloor heating

## System data

		Product	Consumption	Application	Remarks
Primer	concrete	Uzin PE 360 plus	0.08 – 0.15 kg/m <sup>2</sup>	Squeegee, paint roller	Uzin PE 360 plus can be used up to a remaining moisture of < 2%, otherwise CONIPUR 3785 must be used.  For further questions regarding application and / or use, please contact Uzin directly.
		Uzin NC 160	approx. 3 kg/m <sup>2</sup> for 2mm thickness  consumption approx. 1.5 kg/m <sup>2</sup> per mm thickness – minimum 2mm as after 1 day curing time the filler needs to be ground – the consumption can be adjusted depending on the roughness of the concrete	Trowel	For application and / further questions regarding or use please contact Uzin directly. This intermediate layer is necessary to ensure the adherence of the following adhesive.
Elastic Layer		Uzin KE 2000 S  Polyolefine Foam Mat with fixed reinforcing glass fibre fabric to be bought at Polysport – sold as Duolastic NUS AS 3002, approx. 11 mm thick with glass fibre fabric 580 gr, width 1.95 m, length approximately 27.30 m  <u>not</u> suitable for underfloor heating	0.25 - 0.4 kg/m <sup>2</sup>	Notched squeegee A2	The dispersion adhesive needs to ventilate for 10-15 minutes, then the foam mat can be laid into the adhesive. 10 minutes later the mat has to be rolled over cross wise with a roller weighing at least 70 kg – first rolling to be done across the mat
Joint preparation		Joint cord Joint tape  <b>CONIPUR 248</b>  When installing a tribune reinforcement, glass fibre fabric (available at Polysports) and CONIPUR 248 must be added accordingly, joint cord and tape can also be obtained at Polysport	approximately 0.55 linear meters per m <sup>2</sup>  0.2 kg/rm	Laminating roller, smoothing trowel	The joint cord must be laid flush to the top of the joint in order to effectively prevent the penetration of the coating.    After curing of CONIPUR 248, grind to obtain an even surface.
		<b>CONIPUR 248</b>	0.8 kg/m <sup>2</sup>	Notched squeegee	The whole surface is then covered with a layer of 0.8 kg/m <sup>2</sup> of CONIPUR 248
Hard Matrix	Load distribution layer	<b>CONIPUR 249 FL</b>  	2.0 kg/m <sup>2</sup>	Notched aluminium squeegee	This coating is only available in <b>grey</b> – for details regarding coverage of the following top coat please contact our Technical Service. The use of an <b>aluminium squeegee</b> is strongly recommended to avoid an uneven surface.

Coating	Top 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  	
Line Paint 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:** 11 + 2 + x mm, x= thickness of the coating layer

**Selected technical properties**

		Thickness in mm (sub base + coating)	Result	Requirement	Remarks
EN 14904	Shock absorption	10+2+2	56 %	25 -75 %	Data taken from EN test report – elastic layer as defined in the test report
	Standard deformation	10+2+2	3.4 mm	≤ 5 mm	
	Rolling load	10+2+2	1500	1500	
	Impact resistance	10+2+2	14 Nm	≥ 8 Nm	
	Residual impression	10+2+2	0.36 mm	≤ 0.5 mm	
	Ball rebound	10+2+2	96 %	≥ 90 %	
	Sliding properties	10+2+2	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



Declaration of Performance



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

**Preparation**

This type of flooring can only be selected if the hall is **not** equipped or planned to be equipped with **underfloor heating**.

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 **2 %**.

The **temperature** of the substrate must be at least **3 °C** above the current dew point temperature.

The **temperature** of the **products** must be between **15** and **25 °C** before and during application.

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

The screed must be ground or shot-blasted. If there are construction joints, armouring cuts have to be made, armouring irons laid and the joints friction-locked with epoxy resin and sanded.



prepared construction joint

**Application**

On the **dry cleaned** surface a primer is applied. On cementitious substrates with a remaining moisture of **< 2%** Uzin PE 360 Plus is applied.

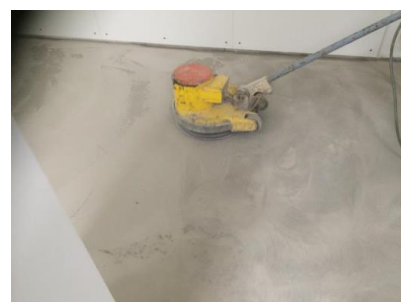
The **levelling filler** Uzin NC 160 is applied with a bigger trowel. Depending on the roughness of the substrate the

consumption is approximately 1.5 – 2.5 kg/m<sup>2</sup> per mm filling of unevenness.



surface with levelling compound

Depending on the climatic conditions / used filler / quantity of the filler the **curing** will take **up to 24 hours**. After curing, the surface needs to be **ground** with a disc-type sander using abrasives with a grit of 16, 24 or 36. Afterwards the surface is cleaned with a **vacuum cleaner**, removing the dust completely.



grinding of the surface

The polyolefine foam mat is cut into the approximate length (considering excess rather than shortage).

The **dispersion adhesive** Uzin KE 2000 S is applied with a notched squeegee (size A2). The adhesive needs to **ventilate** for approximately **10 - 15 minutes**, before the foam mat is laid with the glass fibre facing the top into the glue and cut into the final length.



laying of the mat into adhesive

After waiting for **10 minutes** the surface needs to be **rolled** over with a roller of at **least 70 kg weight**. The rolling has to be done **cross-wise**, starting **transverse** to the length allowing the air to move out at the small side. Then roll along the **length** and finish by rolling **across** again.



rolling transverse to the length

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**. The weights are left on the mat until the adhesive has fully cured (normally overnight).

Press the special foam cord in the joints between the foam mats (free of fringes/ threads) with a small rolling wheel.

The cord needs to be **flush** to the top of the joint.

Use a smoothing trowel in order to **cover all joints** with CONIPUR 248 approx. 20 cm wide. Roll the joint tape into the fresh applied CONIPUR 248 and **fix it** with a laminating roller and embed it with a small amount of CONIPUR 248. Approximately 0.2 kg per running meter of CONIPUR 248 is required for this purpose.

Then apply approximately **0.8 kg/m<sup>2</sup>** CONIPUR 248 on the **complete surface** using a 3 mm rubber squeegee.

After curing, continue with the tribune reinforcement. Approximately 1.5 kg / m<sup>2</sup> CONIPUR 248 is applied in the driving areas of the tribune. The glass fibre fabric is laid bubble-free in the still wet coating. See also the technical documentation "*Reinforcement of Stands*".

When the material has cured for at **least six hours** check, whether the entire surface is **even** – if not, grinding is necessary. Also check the surface for possible **bubbles** / air inclusions (adhesion of the mat).

As the dispersion adhesive is still sticky enough for approximately two days, the bubbles / not fixed parts can

be punctured by using a nail, thus releasing the air and loaded with a weight to fix. The small hole(s) need(s) to be closed afterwards.

Then the coating **CONIPUR 249 FL** is applied with a notched squeegee to built the hard matrix.

After over-night curing double check once again, if there are any spots, where the foam mat does not adhere properly – if so puncture, press, close as above.

Only when there are no such spots left, apply **CONIPUR 3380 FL** with a **notched squeegee**.

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 micro fibre rollers (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.

**Contact address** for the primer, filler and adhesive:

Uzin Utz AG  
 Dieselstrasse 3  
 DE-89079 Ulm  
 Deutschland  
 Telefon +49 731 4097-0  
 Fax +49 731 4097-214  
 e-mail: info@uzin.com

There you will receive the product data sheets as well as the material safety data sheets and surely – if needed – they will offer their support to find the appropriate product(s).

In case Uzin products are applied for the first time we recommend to ask for technical support on site from Uzin.

**Contact address** for the polyolefine foam mat, joint cord, joint tape and glass fibre fabric:

Polysport GmbH  
 Pfarrleitenweg 10  
 D- 96486 Lautertal  
 Germany  
 Tel.: +49 (0) 9561 795 80 67  
 Fax: +49 (0) 9561 795 80 73  
 EMail : info@polysport.de

**Remarks**

For application conditions please see our “*General Application Guidelines for Sports Systems Indoor and Outdoor*”.

The sports floor reaches its **final hardness** after 7 days and must not be mechanically stressed beforehand.

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 the system data sheet**

**CONIPUR KF protect+**



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1658-CPR-3065

**SY/K/PR1/2013**

EN 14904:2006

mixed-elastic, low emission, flame retardant indoor sports flooring surface  
**CONIPUR KF protect+**  
 ca. 2mm PUR coating + ca. 2mm hard matrix + ca. 10mm Polyolefin foam mat

EN 14904: C<sub>fl</sub>-s1 - 26 mg – 102 – 56% - 1500N – E1

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	C <sub>fl</sub> -s1	EN 14904
Resistance to wear	26 mg	EN 14904
Friction	102	EN 14904
Force reduction	56 %	EN 14904
Rolling load without damage	1500N	EN 14904
Release of dangerous substances	class E1	EN 14904