

# CONIPUR 2S

## Two Layer Permeable EPDM System

### Fields of application

multipurpose fields, school playgrounds, tracks

### System data

		product	consumption	application	remarks
<b>Primer</b>	for asphalt:	<b>CONIPUR 70</b>	0.15 kg/m <sup>2</sup>	airspray or roll	In case of the residual moisture in concrete of > 4%, CONIPUR 3785 must be used.
	for concrete:	<b>CONIPUR 4710</b> (CONIPUR 74)	0.20 kg/m <sup>2</sup>	airspray or roll	A surface preparation by blasting or grinding (incl. the necessary post-treatment) is usually required. For further information see the product data sheets or contact our Technical Service.
<b>Base layer</b>	thickness approx. 8 mm	<b>CONIPUR 6020</b>	1.1 kg/m <sup>2</sup>	Paver	For a thickness of 12 mm approx. 1.7 kg/m <sup>2</sup> binder and 7.9 kg/m <sup>2</sup> granules are used. In case of manual installation we recommend to use CONIPUR 4020.
		Recycled rubber granules, 1-3 mm	5.25 kg/m <sup>2</sup>		
<b>EPDM layer</b>	Top layer thickness approx. 8 mm	<b>CONIPUR 6020</b>	1.5 kg/m <sup>2</sup>	paver	CONIPUR 6020 is an aromatic binder, which will yellow when exposed to sun light.
		<b>CONIPUR EPDM</b> granules, 1-3.5 mm	7.7 kg/m <sup>2</sup>		For sensitive colours of the granules (e.g. blue, beige, grey) we recommend to use CONIPUR 6080 (highly UV resistant) or CONIPUR 6090 (UV stable, aliphatic).
		Alternative binders: highly UV stable binder CONIPUR 6080 UV stable binder CONIPUR 6090  For the manual installation we recommend to use CONIPUR 4020, CONIPUR 4080 or CONIPUR 4090			For further information see "Playground EPDM – Binder Type"..
<b>Sealing lacquer</b>	optional	<b>CONIPUR 2210</b> (antiskid)	0.30 kg/m <sup>2</sup>	spray (in 2 coats)	The application of a top coat improves the slip resistance, the UV-resistance (in case of CONIPUR 6020 or CONIPUR 6080) and facilitates the maintenance
<b>Line paint</b>		<b>CONIPUR 8150</b>	20-30 g/m	spray	

### Total thickness of the system

approx. 16 mm (8 + 8 mm)

## Selected technical properties for CONIPUR 2S 8+8 mm

		conditions	result	requirement	remarks
<b>EN 14877</b>	Force reduction	23 °C	39 %	≥ 25%	
	Modified vertical deformation	23 °C	1.3 mm	≤ 3 mm	
	Friction	dry	89	80-110	
	Resistance to wear	unaged	1.3 g	< 4.0 g	Data taken from suitability test according to EN 14877
	Permeability		12'800 mm/h	≥ 150 mm/h	
	Tensile strength	unaged aged	0.6 MPa 0.5 MPa	≥ 0.4 MPa	
	Elongation at break	unaged aged	57 % 56 %	≥ 40 %	

Depending on the substrate, rubber source and application conditions or in case of using alternative products, results may vary.

### Preparation

Base courses to be coated have to be firm, dry and free of loose and brittle particles and substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants

The bound base layer must fulfil the [relevant standards](#) with special reference to: flatness, gradients, thickness, load bearing capacity and water permeability.

The tensile strength of the concrete must be at least 1.0 N/mm<sup>2</sup>. The residual [moisture](#) of the concrete must not exceed 4 % (check with CM equipment), which corresponds to maximum 75 % relative humidity according to ASTM F 2170. If using the calcium chloride test, the maximum allowable vapour emissions is 4.0 lbs. as per ASTM F 1869.

The [temperature](#) of the [base course](#) 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.

### Application

Apply CONIPUR 70 onto the pre-treated [asphalt](#) substrate using airless spraying equipment or a paint roller.

On [concrete](#) CONIPUR 4710 or CONIPUR 74 is used. In case of a higher residual moisture up to 6 %, CONIPUR 3785 must be used – please refer to the corresponding product data sheets.

Apply only as much primer as can be [re-coated](#) within 24 hours (concrete 8 hours).

If recoating does not take place within the 24 hours (concrete 8 hours) period a [new coat of primer](#) must be applied in order to avoid poor adhesion. If the surface is [soiled](#) (dust, sand), the surface must be cleaned and CONIPUR 72 must be applied after it has dried completely. The CONIPUR 72 primer must also be used after [rain](#).

Allow the solvent to evaporate and the sub base to become sticky, before applying the resilient layer.

Mix the rubber granules and CONIPUR 6020 using a compulsory mixer. Apply the mix using a specially designed paver to the primed surface to form the resilient base layer.

Let the base layer cure (harden) so that foot traffic or equipment do not leave any indentations. The curing process depends on temperature and humidity. If there is sufficient humidity in the air, curing is normally finished overnight.

The [maximum recoating interval](#) of the elastic base layer is 48 hours. In case the EPDM layer be installed after this interval, the surface has to be primed with CONIPUR 72.

If the surface is [soiled](#) (dust, sand), the surface must be cleaned and CONIPUR 72 must be applied after it has dried completely. The CONIPUR 72 primer must also be used after [rain](#).

Mix the CONIPUR EPDM granules and CONIPUR 6020 using a compulsory mixer. Apply the mix using a specially designed paver on the base mat.

For sensitive colours of the granules we recommend to use CONIPUR 6080 (highly UV-stable) or CONIPUR 6090 (UV stable, aliphatic). For more information, please refer to "Playground EPDM – Binder type".

The **smoothing** of the surface **during application** of the binder-granule mix can be facilitated by using CONICA **SMOOTHING AGENT**, which is used to moisten the trowel. It is a very pure product with low odour. As the trowel only needs to be moistened, the consumption can be very low.

Allow the EPDM layer to cure (harden). The curing process depends on temperature and humidity. Do not allow **foot traffic** until the surface is sufficiently cured. If there is

enough humidity in the air, curing is normally finished overnight.

Optionally, the surface can be sealed with CONIPUR 2210 **anti-slip** top coat. The best way to apply CONIPUR 2210 is with an airless spray machine.

In order to obtain an uniform surface, **two spray coats from opposite directions** are required. This is the only way to ensure that the granulate is completely sealed. Further information can be found in the corresponding product data sheet.

### 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"*.

Suitable machinery for installing the in situ base layer on is e.g. Plano Matic and Mixmatic from SMG, Vöhringen/Germany.