

CONIPUR EPDM

Single Layer Permeable EPDM System

Fields of application

multipurpose fields, school playgrounds, tracks

System data

			product	consumption	application	remarks	
	Primer	for asphalt:	CONIPUR 70	0.15 kg/m²	airspray or roll	In case of the residual moisture in concrete of > 4%, CONIPUR 3785 must be used.	
		for concrete:	CONIPUR 4710 (CONIPUR 74)	0.20 kg/m²	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.	
	EPDM layer		CONIPUR 6020	2.4 kg/m²	paver	CONIPUR 6020 is an aromatic binder, which will yellow when exposed to sun	
			CONIPUR EPDM granules, 1-3.5 mm Alternative binders: highly UV stable binder UV stable binder CONII			light. 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).	
			For the manual installat CONIPUR 4020, CONII			For further information see "Playground EPDM – Binder Type".	
	Sealing Iacquer	optional	CONIPUR 2210 (anti-skid)	0.30 kg/m²	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	
	Line		CONIPUR 8150	20-30 g/m	spray		

Total thickness of the system

approx. 13 mm

CONIPUR EPDM, May 2020 / rev 10 page 1 of 3



Selected technical properties

		conditions	result	requirement	remarks	
	Force reduction	23 °C	38 %	25-50 %		
EN 14877:2006	Modified vertical deformation	23 °C	1.6 mm	≤ 6 mm	Data taken from EN test report.	
EN 148	Friction (sliding coefficient)	dry wet	56 63	55 - 110		
	Tensile Properties	tensile strength elongation at break	0.54 N/mm² 69 %	≥ 0.4 Mpa ≥ 40 %		
	Standard deformation	0 °C 20 °C 40 °C	1.0 mm 1.2 mm 1.5 mm	0.6-1.8 mm		
	Relative abrasion		27	> 1.0		
035-6	Spike resistance		Class 1	Class 1	Data taken from suitability	
DIN V 18035-6	Remaining indentation		0.5 mm	≤ 1.0 mm	test according to DIN V 18035-6.	
	Permeability		0.061 cm/s	0.01 cm/sec		
	Ageing	Constant climate with condensation, constant heat (80 °C), combined climate of heat, humidity and light	pass	pass		

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

Selected environmental data

		details	result	requirement	remarks
al ding to	DOC	48 h	< 5	≤20	
Environmenta atibility accor	Heavy metals	Lead (Pb) Cadmium (Cd) Chromium _{totale} (Cr) Chromium VI (CrVI) Mercury (Hg) Zinc (Zn) Tin (Sn)	< 0.005 mg/l < 0.0005 mg/l < 0.005 mg/l < 0.008 mg/l < 0.0002 mg/l 0.74 mg/l < 0.005 mg/l	≤ 0.04 mg/l ≤ 0.005 mg/l ≤ 0.05 mg/l < 0.008 mg/l ≤ 0.001 mg/l ≤ 3.0 mg/l ≤ 0.05 mg/l	Data taken from suitability test according to DIN V 18035-6.
comp	Smell		no smell		

CONIPUR EPDM, May 2020 / rev 10 page 2 of 3



Preparation

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

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 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 tear strength of the concrete must be at least 1.0 N/mm².

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

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 CONIPUR EPDM 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.

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 is e.g. Plano Matic and Mixmatic from SMG, Vöhringen/Germany.

CONICA AG Industriestr. 26 8207 Schaffhausen Switzerland Tel.: +41 52 644 3600 Fax: +41 52 644 3699 info@conica.com Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the professional competence involved in the application of the product are beyond our control.

As all CONICA guidelines maybe updated as needed, it is user's responsibility to obtain the most recent issue. Registered users can obtain the actual data sheets from our webpage. Hard copies are available upon request.