

Certified by WA (World Athletic) - Permeable Structural Spray Coating System

Fields of application

athletic tracks, multipurpose and school sports

System data

		Product	Consumption	Application	Remarks
Primer	for asphalt:	CONIPUR 70	0.15 kg/m²	spray	CONIPUR 74 is used for pre-fabricated concrete parts, e.g. for curb stones and drainage
Pri	for concrete:	CONIPUR 74	0.20 kg/m²	spray	systems. Otherwise, CONIPUR 3785 has to be used.
Base layer	11 mm	CONIPUR 322	1.3 kg/m²	paver	
Base		Recycled rubber granules, 1-4 mm	7.2 kg/m²		
	2 mm with solvent free	CONIPUR 2640	1.2 kg/m²		When using the solvent free CONIPUR 2640, EPDM powder is
bu	coating (1 component)	conipur epbm granules, 0.5-1.5 mm	0.8 kg/m²	spray (two coats)	normally not necessary
Spray coating	or 2 mm standard coating	CONIPUR 217 (CONIPUR 216/322)	1.2 kg/m ² (0.4/0.8 kg/m ²)		Please pay attention to the CONICA recommendation on the EPDM particle size.
Sp		granules, 0.5-1.5	0.8 kg/m²	spray (two coats)	At low temperatures, the amount of rubber powder can possibly be reduced
		CONIPUR EPDM powder, 0.0-0.5 mm	0.05 kg/m ²		
Sealing lacquer	optional (for most colours)	CONIPUR 2200 (CONIPUR 2210)	0.25-0.30 kg/m²	spray (two coats)	CONIPUR 2210 with slip resistant properties
Line	1	CONIPUR 8150	20-30 g/m	spray	

Total thickness of the system approx. 13 mm (11 + 2 mm)

CONIPUR SP, July 2021 / Rev 9 page 1 of 3



Selected technical properties

				Result	Requirement	Remarks
	ments	Force reduction		≥ 36 %	25-60 %	Data taken from the test report according to EN 14877
	on EN 14877 requ	Modified vertical deformation		≤ 2.0 mm	≤ 3 mm	
		Permeability		≥ 500 mm/h	Permeability	
		Resistance to wear		≤ 1 g	≤ 4 g	
Based	Tensile Properties	tensile strength elongation at break	≥ 0.5 N/mm² ≥ 45 %	≥ 0.4 N/mm² ≥ 40 %		

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

Selected environmental data to DIN V 18035-6

			Result	Requirement	Remarks
ntal lity	EOX		< 10 mg/kg OS	100 mg/kg OS	
Environment compatibilit	DOC	24h	< 30 mg/l	≤ 50 mg/l	Data taken from suitability test according to DIN V 18035-6
	Heavy metals		conform		
	Smell		no smell		

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 tear resistance of the base course must be at least 1.0 N/mm².

The residual moisture 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 on 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 water permeable asphalt sub-base using airless spraying equipment. Apply only primer in areas where the base layer will be installed within the next 24 hours.

For precast concrete parts such as curbs and drainage systems, CONIPUR 74 is applied preferably with a low-pressure airless device (for further information see product data sheet).

Allow the solvent to evaporate and the base course to become sticky, before applying the following layer. Depending on the prevailing humidity of the air, this is the case after about 2 hours.

Apply only primer in areas where the following layer will be installed within the next 12 hours. If the application of the base layer does not take place within the 12 hours

CONIPUR SP, July 2021 / Rev 9 page 2 of 3



period, a new coat of primer has to be applied in order to avoid poor adhesion.

CONIPUR 3785 must be used for fresh concrete surfaces such as shot put ring surrounds, net post foundations, pole vault entry boxes, take-off boards, etc.

CONIPUR 3785 is applied by rolling, or better with a rubber squeegee and by uniform rolling or brushing on the previously prepared substrate. Puddling or thick layers are to be avoided. For the first layer the consumption must be least 0.5 kg/m² - do not sand.

The second layer of CONIPUR 3785 must be applied after at least 12 hours, but no more than 48 hours. If this is not possible, the substrate must be pretreated again (sanding or shot blasting).

To ensure the adhesion of the following polyurethane-based layer, the 2nd layer of CONIPUR 3785 (consumption min. 0.35 kg/m²) must be sprinkled with oven-dried quartz sand (grain size 0.3-0.8 mm). Unbound quartz sand must be removed after curing (see product data sheet for further information).

Mix the recycled rubber granules (grain size 1–4 mm) with CONIPUR 322 using a specially designed mixer. Apply the mixed material with a specially designed paver onto the primed surface.

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.

After curing, prepare and apply the spray-coat. Pre-mix CONIPUR 2640, weigh out the necessary quantity, add CONIPUR EPDM granules (grain size 0.5 – 1.5 mm), mix until homogenous and fill the mixed material into a spray machine, specifically designed for spraying this kind of mixture. Spray the mix onto the surface in two coats from opposite directions to obtain the specified coverage rate.

CONICA SMOOTHING AGENT can be used as a thinner for the spray coating. This product is VOC free and has little odor. We recommend a maximum of 1.5% SMOOTHING AGENT on the finished mixture as a thinner for the second spray pass.

The preparation and application when using CONIPUR 217 (or CONIPUR 216/322) is the same, only CONIPUR EPDM powder is added to increase the viscosity.

Optionally, the surface can be sealed with pigmented CONIPUR 2200 or CONIPUR 2210 (slip-resistant).

For sensitive colours of the granules (e.g. blue, beige or grey) we recommend to apply a top coat, to improve the UV resistance.

Sealing not only improves UV resistance, but also extends the life time and simplifies maintenance (easier and, in the long term, more cost-effective cleaning).

The top coat is sprayed in two coats from opposite directions with an approximate consumption of total 0.30 kg/m².

Further information and application instructions are shown in the 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".

Special pavers, discontinuous mixers and spray machines such as PlanoMatic, MixMatic and StructureMatik from SMG, Vöhringen / Germany are used for the on-site installation of rubber granulate mats and for the application of the structure spray coating.

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