

# CONIPUR SW – COMPUR SW FL – CONIPUR SW XT

# WA Certified Sandwich System

Fields of application

top class sports and athletic tracks

## 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	
	for concrete	CONIPUR 74	0.20 kg/m <sup>2</sup>	spray	systems. Otherwise, CONIPUR 3785 has to be used.	
layer	10 mm	CONIPUR 322	1.2 kg/m²	paver		
Base layer		recycled rubber granules, 1 - 4 mm	6.5 kg/m²			
ealer		CONIPUR 2400 (CONIPUR 203)	1.0 – 1.4 kg/m <sup>2</sup> (1,5 - 1,8 kg/m <sup>2</sup> )	rubber / metal wiper (or paver)	Depending on the temperature and porosity of the base layer, the consumption may vary.	
Pore sealer	Alternatively, CONIPUR 210 can be used in combination with EPDM powder. The powder must for compatibility before use. Mixing ratio PUR: EPDM powder approx. 65:35 – depending on of the EPDM powder and the temperatures CONIPUR 210 can be added up to a ratio of 70 EPDM powder					
<u>.</u>		CONIPUR 72	50-80 g/m <sup>2</sup>	spray	If the adhesion test is not satisfactory, please contact our	
Primer		If the pore-sealed surface the recoating interval of 2 with primer CONIPUR 72 out.	4 hours was exceeded	technical service.		
	top layer	CONIPUR 210	2.2 kg/m <sup>2</sup>	notched squeegee	Net consumption. For track surfaces, a total amount of	
		CONIPUR EPDM granules, 1-3.5 mm	2.8 kg/m² (net consumption)	broadcast	approx. 4.2 kg/m² granules must be calculated incl. the excess quantity.	
Coating		Depending on the climate coated, the excess por		For smaller surfaces, which are installed within one day, the excess quantity of granules must		
O		For <b>CONIPUR</b> CONIPUR 210 <b>FL</b> and	SW FL (flar CONIPUR EPDM F	be increased accordingly.		
		in this layer, only the classification Bfl-s1 ** contain flame retardant	**. The coating ar	*** The consumption and excess quantity is the same		
Sealing lacquer	optional	<b>CONIPUR 2200</b> (CONIPUR 2210)	0.30 kg/m²	spray (two coats)	CONIPUR 2210 with slip resistant properties	

CONIPUR SW, July 2021 / rev 12 page 1 of 4



Line	CONIPUR 8150	20-30 g/m	spray	

Total thickness of the system approx. 14 mm (10 + 4 mm)

Instead of the normal layer thickness, the top layer (wear coat) can also be installed with a **higher** layer thickness, **CONIPUR SW** XT. The higher wear layer corresponds to the WA recommendations, which were revised in 2019. This system structure has been tested in accordance with the WA and EN 14877 specifications and corresponds to the specifications.

The top layer is then built up as follows:

Coating	top layer	CONIPUR 210	2.75 kg/m <sup>2</sup>	notched squeegee	For track surfaces, a total amount of approx. 5.0 kg/m² EPDM granules must be calculated incl. the excess quantity. For smaller surfaces, which are installed within one day, the excess		
		CONIPUR EPDM granules, 1-3.5 mm	3.5 kg/m <sup>2</sup> (net consumption)	broadcast			
		Depending on the climatic conditions and the surface to be coated, the excess portion may possibly be reduced.			quantity of EPDM granules must be increased accordingly.		
	CO in class	For CONIPUR CONIPUR 210 FL and in this layer, only the classification Bfl-s1 * contain flame retardant	I CONIPUR EPDM en will the system **. The coating a	achieve the fire	*** The consumption and excess quantity is the same		

Total thickness of the system approx. 15 mm (10 + 5 mm)

### Selected technical properties for the system CONIPUR SW 10 + 4 mm

			Result	Requirement	Remarks
ments	Force reduction		≥ 35 %	25-50 %	
14877 requirements	Modified vertical deformation		≤ 2.0 mm	≤ 3 mm	Data taken from the test
1487	Permeability		impermeable		report according to EN 14877
on EN	Resistance to wear		≤ 3 g	≤ 4 g	
Based	Tensile Properties	tensile strength elongation at break	≥ 0.6 N/mm² ≥ 55 %	≥ 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

CONIPUR SW, July 2021 / rev 12 page 2 of 4



#### Selected environmental data

				Result	Requirement	Remarks
Environmental compatibility	. <u>.</u>	EOX		≤ 22 mg/kg OS	100 mg/kg OS	Data taken from suitability test according to DIN V 18035-6
	tibilit	DOC	24h	≤ 46 mg/l	≤ 50 mg/l	
	mpa	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 strength of the base course must be at least  $1.0 \text{ N}/\text{mm}^2$ .

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.

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 two 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 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/m<sup>2</sup> - 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 1-4mm) 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.

Close the pores of the base layer with CONIPUR 2400 or CONIPUR 203 (see product data sheets) by using a rubber or metal wiper or a specially equipped paving machine.

If the pore-sealed surface was exposed to rain, if it was wet or if the recoating interval of 24 hours was exceeded, an adhesion test must be carried out or primer CONIPUR 72 (approx. 50 - 80 g/m²) must be applied to ensure the adhesion of the following layer.

**CONIPUR** After curing apply coating (CONIPUR 210 FL) with a notched squeegee. Broadcast CONIPUR surface with dry **EPDM** the (CONIPUR EPDM FL) granules to excess (grain size 1 - 3.5 mm) before curing takes place. Remove the excess CONIPUR EPDM granules (re-use for broadcasted surfaces possible) when the coating has cured.

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

CONIPUR SW, July 2021 / rev 12 page 3 of 4



Sealing improves UV resistance, 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/m<sup>2</sup>.

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".

Suitable machinery for installing the in situ base layer is e.g. PlanoMatic and MixMatic from SMG, Vöhringen/Germany.