

# WA Certified Full Pour, Full Depth Colour System

Fields of application

high-performance sport, athletics tracks for top events

## System data

		Product	Consumption	Application	Remarks	
Primer	for asphalt:	no primer necessary	-	-	CONIPUR 74 is used for pre-fabricated concrete parts, e.g. for curb stones and	
Pri	for concrete:	CONIPUR 74	0.20 kg/m²	spray	drainage systems. Otherwise, CONIPUR 3785 has to be used.	
		CONIPUR 2350	3.8 kg/m²	propeller rake	Depending on the porosity of the substrate, additional amount of product must be considered.	
Coating	1st layer	CONIPUR EPDM granules,1 - 3.5 mm	5.5 kg/m² (net consumption)	broadcast	Net consumption. In order to broadcast the surface excess granules are needed. The total	
		Important: in order thickness, it is absolute 10.0 kg/m <sup>2</sup> of EPDM gra	ely necessary to br		quantity needed for this layer is	
	top layer	CONIPUR 2375	3.0 kg/m²	notched squeegee	For track surfaces, a total amount of approx. 4.2 kg/m² must be calculated for the top	
		CONIPUR EPDM granules, 1-3.5 mm	2.8 kg/m² (net consumption)	broadcast	layer incl. the excess quantity. In case both layers are installed in red colour, the total requirement is approximately 10 - 11 kg/m².	
Coating		Depending on the clima coated, it might be poss	For smaller surfaces, which are installed within one day, the excess quantity of EPDM granules must be increased accordingly.			
		For CONIPUR V CONIPUR 2375 FL and in this layer, only the				
		classification Cfl-s1 ** contain flame retardants		*** 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	
Line		CONIPUR 8150	20-30 g/m	spray		

Total thickness of the system

approximately 14 mm

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#### Selected technical properties

			Result	Requirement	Remarks
ments	Force reduction		≥ 36 %	25-50 %	
14877 requirements	Modified vertical deformation		≤ 2.2 mm	≤ 3 mm	Data talan from the test
	Permeability		impermeable		Data taken from the test report according to EN 14877
on EN	Resistance to wear		≤ 2 g	≤ 4 g	
Based	Tensile Properties	tensile strength elongation at break	≥ 0.5 N/mm² ≥ 40 %	≥ 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 according to DIN V 18035-6

				Result	Requirement	Remarks
Environmental compatibility	EOX		≤ 8 mg/kg OS	100 mg/kg OS		
	tibili	DOC	24h	≤ 29 mg/l	≤ 50 mg/l	Data taken from suitability test according to DIN V 18035-6
	ompa	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.

## **EPDM** consumption

For a track surface, it is generally assumed that the daily installation capacity is 1'000 m². Therefore, it is calculated as follows:

For the first layer and the first 1'000 m<sup>2</sup>, a total of 10'000 kg of EPDM granules will be consumed. 4'000 kg of these granules are collected again after curing and used again.

Accordingly, 6'000 kg of new granules and 4'000 kg of collected excess granules are be needed for the next  $1'000 \text{ m}^2$ .

For 5000 m², a total of approx. 34'000 kg of EPDM is required for the first layer, approx. 64'000 kg for 10'000 m².

For the second layer and the first 1'000 m<sup>2</sup> a total of 4'200 kg of EPDM granules will be needed. 1'200 kg of these granules are collected after curing and used again.

Accordingly, 3'000 kg of new granules and 1'200 kg of collected granules are used for the next 1'000  $m^2$ .

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For 5'000  $\text{m}^2$ , a total of approx. 16'200 kg of EPDM is required for the second layer, approx. 31'100 kg for 10'000  $\text{m}^2$ .

If the second layer is to be built with fewer daily joints and the daily capacity is increased accordingly to approx. 2'000 m<sup>2</sup>, more excess granules must be calculated.

#### **Application**

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/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).

For water impermeable asphalt substrate no adhesion primer is needed.

The pores of a water permeable asphalt must be closed so that not too much coating material runs off. This is done with either CONIPUR 2400 (approx. 2-2.5 kg/m² – depending on the porosity) or a mixture of CONIPUR 210 and EPDM powder.

Otherwise, the required total thickness of the track surface is not achieved. This also deteriorates the mechanical / sports functional properties.

Attention: the application of a pore sealer does **not** protect against rising humidity!

CONIPUR 2350 is applied to the pre-treated substrate using a propeller rake (4-6 mm) and broadcasted with dry CONIPUR EPDM granules (grain size 1-3.5 mm) to excess before curing takes place. Remove the excess EPDM granules (re-use for broadcasted coatings possible) when the coating has cured.

Apply for the second layer CONIPUR 2375 (CONIPUR 2375 FL) and broadcast with CONIPUR EPDM (CONIPUR EPDM FL) granules (must be dry, grain size 1 - 3.5 mm) to excess before curing takes place. Remove the excess EPDM granules (re-use for broadcasted coatings possible) when the coating has cured.

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

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.

The track reaches its final hardness after 14 days under normal climatic conditions. It must not be used with spikes or subjected to mechanical loads before this time.

#### 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"

CE-Label:

see Declaration of Performance

CE

**UKCA-Label:** 

see Declaration of Conformity



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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.

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