



CONIPUR M – CONIPUR M FL

WA Certified Full Pour, Full Depth Colour System

Fields of application

top class sports and athletic tracks

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 drainage systems. Otherwise, CONIPUR 3785 has to be used.
	for concrete:	CONIPUR 74	0.20 kg/m ²	spray	
Coating	1st layer	CONIPUR 208	2.2 kg/m ²	notched squeegee	Depending on the porosity of the substrate, additional amount of product must be considered.
		CONIPUR magic EPDM granules, 1-4 mm	2.2 kg/m ² (net consumption)	broadcast	Net consumption. To broadcast the surface an excess quantity is needed.
Coating	2nd layer	CONIPUR 208	2.2 kg/m ²	notched squeegee	For track surfaces , a total amount for both layers of approx. 5.5 kg/m² EPDM magic granules must be calculated incl. the excess quantity. For smaller surfaces , which are installed within one day , the excess quantity of EPDM granules must be increased accordingly.
		CONIPUR magic EPDM granules, 1-4 mm	2.0 kg/m ² (net consumption)	broadcast	
Coating	Top layer	CONIPUR 210	3.0 kg/m ²	notched squeegee	For track surfaces , a total amount of approx. 4.2 kg/m² EPDM granules must be calculated incl. the excess quantity. For smaller surfaces , which are installed within one day , the excess quantity of EPDM granules must be increased accordingly.
		CONIPUR EPDM granules, 1-3.5 mm	2.8 kg/m ² (net consumption)	broadcast	
		Depending on the climatic conditions and the surface to be coated, the excess portion may possibly be reduced.			
		For CONIPUR M FL (flame retardant) CONIPUR 210 FL and CONIPUR EPDM FL must be used in this layer, only then will the system achieve the fire classification Cfl-s1 *** . The coating and the granules contain flame retardants.			*** The consumption and excess quantity is the same
Sealing lacquer	optional	CONIPUR 2200 (CONIPUR 2210)	0.30 kg/m ²	spray (two coats)	CONIPUR 2210 with slip resistant properties
Line paint		CONIPUR 8150	20-30 g/m	spray	

Total thickness of the system

approximately 14 mm

Selected technical properties

		Result	Requirement	Remarks
Based on EN 14877 requirements	Force reduction	≥ 38 %	25-50 %	Data taken from the test report according to EN 14877
	Modified vertical deformation	≤ 2.0 mm	≤ 3 mm	
	Permeability	impermeable		
	Resistance to wear	≤ 3.5 g	≤ 4 g	
	Tensile Properties	tensile strength elongation at break	≥ 0.7 N/mm ² ≥ 60 %	

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	≤ 10 mg/kg OS	100 mg/kg OS	Data taken from suitability test according to DIN V 18035-6
	DOC	24h ≤ 40 mg/l	≤ 50 mg/l	
	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 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

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 with a residual moisture of no more than 6 %, 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. Pudding 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.

Water **permeable asphalt** must be sealed so that not too much coating material runs off. Sealing is done with either CONIPUR 2400 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.

Apply **CONIPUR 208** with a notched squeegee and broadcast with **dry** CONIPUR magic EPDM granules to **excess** before curing takes place. Remove the excess Magic EPDM granules when the coating has cured (re-use for broadcasted surfaces possible).

Repeat the procedure also for the **second layer** of CONIPUR 208.

Apply the **third layer** using **CONIPUR 210** (CONIPUR 210 FL) and broadcast with regular CONIPUR EPDM granules (CONIPUR EPDM FL) (must be **dry**, grain size 1 - 3.5 mm) to **excess** 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).

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/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”*.