

CONIPUR PGI

Two Layer Impermeable Fall Protection for Playgrounds

Field(s) of application fall protection surface for children's playgrounds

System data

		product	consumption	application	remarks
Primer	for asphalt	CONIPUR 70	0.15 kg/m ²	spray	In case of concrete moisture > 4% (e.g. early age concrete), CONIPUR 3785 can be used as a primer. A surface preparation by light blasting or grinding surface removal (incl. the necessary post-treatment) is usually required. For further details, please refer to our appropriate technical data sheet or consult our Technical Service.
	for concrete	CONIPUR 73 oven dried sand	0.20 kg/m ²	Squeegee, paint roller	
Base layer		CONIPUR 4020	4.76 kg/m ²	trowel	Depending on availability also larger granules, shred, crumb and/or fibres can be used which might have an impact on the recommended binder consumption.
		Recycled rubber granules, 1-10 mm or a mixture of rubber granules and fibres	34 kg/m ²		Should - for larger areas - a paving machine be used, a different, suitable binder has to be used. For other shock pad thicknesses (± 30 mm) the amounts of binder and rubber can be adapted proportionally. For questions or more information please contact our Technical Service.
EPDM layer		CONIPUR 4020 (CONIPUR 4080 - UV resistant)	2.3 kg/m ²	trowel	For high classifications of reaction to fire special granules need to be used - please contact our Technical Service
		CONIPUR EPDM granules, 1-3.5 mm	11.5 kg/m ²		In case reference to the test reports regarding reaction to fire, emission and/or HIC measures needs to be made , the components and quantities mentioned in the test reports must be used .
Pore Sealer	1 st layer	CONIPUR 4480	0.80 kg/m ²	straight edged trowel, paint roller	Depending on the porosity and the compacting of the surface the consumption of the pore sealer may vary.
	2 nd layer	CONIPUR 4480	0.30 kg/m ²		
Sealing lacquer		CONIPUR 4200 W	0.13 kg/m ²	paint roller	

Total thickness of the system approx. 50 + 12mm

Depending on the HIC value and the required stability of the systems other thicknesses for base and top layer might be chosen. For high HIC values the thickness of the base layer may exceed 100 mm.

As HIC values largely depend on the installation, neither the values nor test certificates are given here. As your partner CONICA can offer you HIC measurements of your samples in our laboratories. Please contact your responsible sales manager or our Technical Service.

Our test reports concerning reaction to fire, emissions and HIC measurements are based on a slightly different system built up. Used components / quantities as well as thickness(es) of the layer(s) vary from the above described system built up. In order to use the test reports, components and quantities as mentioned in the relevant test report(s) need to be installed!

Preparation

Substrates to be coated have to be firm, dry, load bearing and free of loose and brittle particles and substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants.

The temperature of the substrate must be at least 3 °C above the current dew point temperature.

The moisture level of concrete must not exceed 4 % (check with CM equipment), which corresponds to maximum 75 % relative humidity according to ASTM F 2170.

Application

Apply primer CONIPUR 73 on the pre-treated concrete substrate (in case of asphalt no bonding primer is needed) using a paint roller or elastic squeegee.

Oven dried sand (grain size 0.3-0.8mm) is broadcast into the still wet primer in order to improve adhesion of the following adhesive. For porous substrates, CONIPUR 73 has to be applied in 2 coats.

Mix the rubber granules, shred, crumb and/or fibres with CONIPUR 4020 using a specially designed mixer.

Install the base mat at a consistent density to the specified thickness using a hand trowel.

Let the base layer cure so that foot traffic or equipment does not leave any indentations. The curing process depends on temperature and humidity.

Mix the CONIPUR EPDM granules and CONIPUR 4020 – for UV sensitive colours CONIPUR 4080 - using a suitable mixer. Install the top layer using a hand trowel.

The smoothing of the surface during application of the binder-granule mix can be facilitated by using our SMOOTHING AGENT, which is used to moisten the trowel. It is a very pure solvent with low odour. As the trowel only needs to be moistened, the consumption is very low.

For the stability it is important to achieve a homogeneous, well compacted surface with a minimum thickness of 12 mm.

Allow the EPDM layer to cure. The curing process depends on temperature and humidity. Do not allow foot traffic until the surface is sufficiently cured.

The maximum re-coating interval of the elastic base layer is 48 hours. Should the EPDM layer be installed after this interval, the surface has to be primed with CONIPUR 72.

Seal the pores of the EPDM layer with CONIPUR 4480 using a straight edged trowel or squeegee. Afterwards roll the whole surface with a paint roller to obtain a homogeneous image.

This step has to be repeated after overnight cure to get a visually perfect surface.

Apply top coat CONIPUR 4200 W using lambskin or mohair rollers; roll out well to eliminate roller marks.

Avoid overlapping as far as possible. Accelerated curing by "ventilation" because of open windows/doors/gates needs to be avoided

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".