

CONIPUR PG

Two Layer Permeable Fall Protection for Playgrounds

Fields 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	
	for concrete:	CONIPUR 74	0.20 kg/m ²	spray	
Base layer		CONIPUR 4020	2.85 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	20.4 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 (≠ 30mm) the amounts of binder and rubber can be adapted proportionally. For questions or more information please contact our Technical Service.
Top layer		CONIPUR 4020 (CONIPUR 4080)	2.3 kg/m ²	trowel	For sensitive colours (blue, beige, grey) we recommend the use of our UV resistant CONIPUR 4080
		CONIPUR EPDM granules, 1-3.5 mm	11.5 kg/m ²		

Total thickness of the system

approx. 30 + 12 mm

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 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.

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.

CONIPUR PG is a water-permeable system built up and is therefore suitable for a water-permeable subbase. In case of an impermeable subbase, a drainage and a slope of at least 2% must ensure that the water can run off.

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

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

The **temperature** of the **products** must be between **15** and **25°C**.

Application

Apply CONIPUR 70 (in case of concrete CONIPUR 74) onto the pre-treated **asphalt** substrate using airless spraying equipment or a paint roller.

Apply only as much primer as can be **recoated within 24 hours** (concrete 8 hours). If re-coating does not take place within the 24 hours (concrete 8 hours) period a new coat of primer must be applied in order to avoid poor adhesion.

Allow the solvent to evaporate and the sub base to become sticky, before applying the resilient layer.

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 (harden) so that foot traffic or equipment do not leave any indentations. The curing process depends on temperature and humidity but is normally finished after overnight cure (if applicators stick to the binder recommendations).

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

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

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.

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

The maximum **recoating 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.

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”*.

Larger surfaces can also be installed by using a **paving machine**, in this case a **different**, for this type of installation **suitable binder** needs to be used. Suitable machinery is e.g. Plano Matic (paver) and Mixmatic (mixer) from SMG, Vöhringen/Germany.