

# PLURA® STRIP BALCONY SYSTEM

Waterproofing composite self-adhesive membrane for resurfacing balconies or terraces

## Description

Masonry work does not last forever and periodically requires extraordinary maintenance.

The need to perform extraordinary maintenance work on the flooring of terraces and balconies is due to the fact that the reinforced concrete structures and superstructures (screed and flooring) are subject to various kinds of deformation: dynamic, thermic, shrinking, etc.

In many cases, this deformation also leads to the structure losing its impermeability or to the used elements disintegrating (tiles coming loose, screed crumbling, etc.).

IT IS NOW POSSIBLE TO DO WORK DIRECTLY ON THE EXISTING FLOORING WITH PLURA STRIP BALCONY SYSTEM.

It is recommended to consult the Pluvitec technical department to be able to design the optimal application of the Balcony system in various types and sizes of terraces and balconies.

## Reinforcement

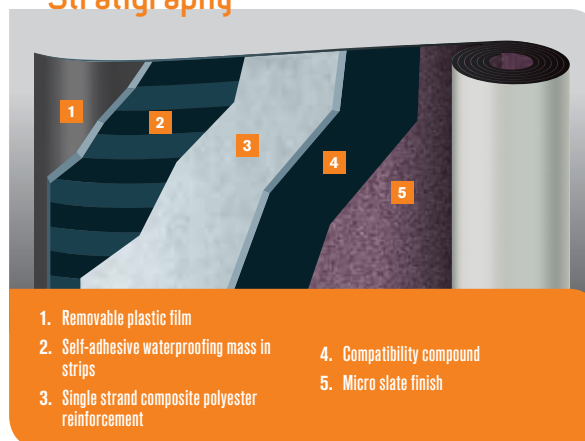
PLURA STRIP BALCONY SYSTEM is reinforced with a woven non woven single strand composite polyester fabric, having excellent mechanical characteristics as well as dimensional stability.

## Finishes

The special surface finish made from slate microflakes makes the surface of the PLURA STRIP BALCONY SYSTEM membrane ideal and high-performance for the subsequent laying of flooring using cement-based adhesives.

The underside of the product has selfadhesive strips designed to enable firm yet partial adhesion of the PLURA STRIP BALCONY SYSTEM membrane. This special and unique finish guarantees an adhesive surface of 50%, without affecting the function of dispersing the water vapour in the flooring underneath, thus eliminating the inconvenience of bubbles.

## Stratigraphy



1. Removable plastic film
2. Self-adhesive waterproofing mass in strips
3. Single strand composite polyester reinforcement
4. Compatibility compound
5. Micro slate finish

## Advantages of PLURA STRIP BALCONY SYSTEM

- Special self-adhesive membrane that can be laid cold without the use of open flames.
- Limited thickness of the PLURA STRIP BALCONY SYSTEM membrane - less than 3 mm.
- No need to for overlapping at the top or sides as with conventional bituminous membranes. No waste and excellent use of the whole membrane.
- The special surface finish made from slate microflakes makes the surface of the PLURA STRIP BALCONY SYSTEM membrane ideal and high-performance for the subsequent laying of flooring using cement-based adhesives.
- The underside of the product has selfadhesive strips designed to enable firm yet partial adhesion of the PLURA STRIP BALCONY SYSTEM membrane. This special and unique finish guarantees an adhesive surface of 50%, without affecting the function of dispersing the water vapour in the flooring underneath, thus eliminating the inconvenience of bubbles.



EN 13707

## Fields of use



### EN13707 Continuous roofs (Certificate n° 0958-CPR-2045/1)

N° layers			Method of application				Type of applications			Type						
Single layer	Double layer	Multilayer	Torch	Hot air	Mixed (Torch / Air)	Cold bond glue	Mechanical fixing	Thermoadhesive / Self-adhesive	Fully bonded	Partially bonded	Loose laid	Complimentary layer	Top layer	Heavy protection	Anti-root	Other uses

PLURA STRIP BALCONY SYSTEM PA 3.0 KG/M<sup>2</sup>

## STRIP BALCONY SYSTEM

### Advantages of Balcony system

- RESURFACING EXISTING FLOORS WITH NO DEMOLITION (except for removing the skirting board etc.).
- RESURFACING NEW FLOORS WITH LIMITED THICKNESS.
- CONSTRUCTION SITE CLOSED IN JUST A FEW DAYS.
- CAN BE LAID QUICKLY WITH NO NEED FOR SPECIAL TOOLS.

### Sizes & packing

Description	PA 3,0 kg/m <sup>2</sup>
<b>Rolls size [m]</b>	10 x 1
<b>Rolls per pallet</b>	30
<b>Square meters per pallet [m<sup>2</sup>]</b>	300

Sizes & packing may vary depending on the type of transportation. The technical data given is based on average values obtained during production. We reserve the rights to change or modify the nominal values without prior notice or advice. The information contained in this data sheet are based on our experience. We cannot take any responsibility for a possible incorrect use of the products. The customer has to choose under their own responsibility a product fit for the intended use.

### Technical data

Technical Characteristics	Measure units	Reference norm	PA	Tolerances
<b>Type of reinforcement</b>			Single strand composite polyester	
<b>Upper face finish</b>			Micro slates *	
<b>Lower face finish</b>			Removable plastic film	
<b>Length</b>	m	EN 1848-1	10 -1%	≥
<b>Width</b>	m	EN 1848-1	1 -1%	≥
<b>Mass</b>	kg/m <sup>2</sup>	EN 1849-1	3,0	±10%
<b>Loss mineral</b>	%	EN 12039	30	≤
<b>Pull out</b>	N/mm <sup>2</sup>	UNI EN 1348	0,9	
<b>Cold flexibility</b>	°C	EN 1109	NPD	≤
<b>Flow resistance</b>	°C	EN 1110	NPD	≥
<b>Tensile strength L / T</b>	N/5 cm	EN 12311-1	700/500	-20%
<b>Elongation at break L / T</b>	%	EN 12311-1	40/40	-15
<b>Tearing resistance L / T</b>	N	EN 12310-1	150/150	-30%
<b>Dimensional stability</b>	%	EN 1107-1	-0,3	≤
<b>Fire resistance</b>		EN 13501-5	F ROOF	
<b>Fire reaction</b>		EN 13501-1	F	
<b>Watertightness</b>	kPa	EN 1928-B	60	≥
<b>Watertightness after ageing</b>	kPa	EN 1296 EN 1928-B	60	≥
<b>Vapour transmission</b>	μ	EN 1931	20000	≥

\* Mineral self-protected products may undergo color tone variations due to the time and length of storage. Exposure to atmospheric conditions, after application, will tend to uniform the color after a few months. The change in color tone cannot therefore be contested and / or complained of as it is a natural phenomenon that the slate manufacturer himself cannot guarantee.

NPD = No Performance Declared in accordance with the EU Construction Products Directive.

### Other performance data

Technical Characteristics	Measure units	
<b>Specific heat</b>		1.70 KJ/kg°K
<b>Thermal conductivity</b>	λ	0.170 W/m°K

## Preparing the substrate

- Remove the skirting board.
- Refurbish with cement-based levelling compound if necessary.
- Remove any loose tiles.
- Refurbish the base layer with cement-based mortar.
- Clean the substrate.
- Remove the floor drain, if there is one.
- In case of use directly on new cement screed, with R.H. < 5%, apply PRIMER SINT over the entire surface to be treated.

## Laying PLURA STRIP

- If the balcony does not have any parapets, it is necessary to install a metal profile before laying the PLURA STRIP membrane.
- Lay the PLURA STRIP membrane lining up the sheets, trying not to overlap them to limit the thickness. [fig. 1]
- Remove the silicone-coated film. [fig. 2]
- Roll out the surfaces using the large roller and the hand roller for the details. [fig. 3]
- Lay the subsequent sheets lining up the sides of the PLURA STRIP. [fig. 4]
- Use a hot air burner + hand roller to seal any edges or details. [fig. 5]

## Laying MONOFLEX

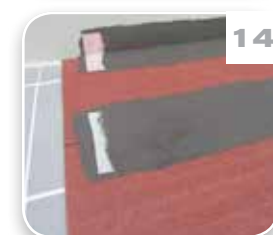
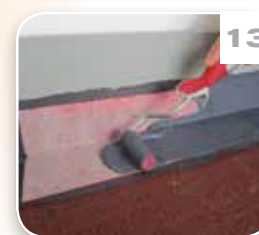
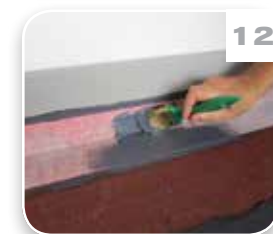
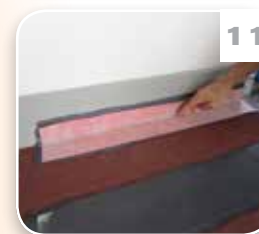
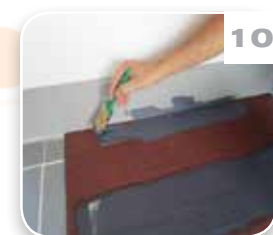
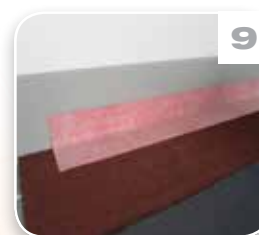
- Position a strip of ARMO 100 dry where the sheets join. [fig. 6]
- Roll out ARMO 100 and evenly apply a first layer of MONOFLEX, using a brush or roller, about 16 cm wide. [fig. 7]
- Apply the second layer of MONOFLEX, covering ARMO 100 evenly. [fig. 8]
- Place BANDTEC dry near the edge turn-ups. [fig. 9]
- Evenly apply a first layer of MONOFLEX, beyond the level of the skirting board. [fig. 10]
- Press BANDTEC into the layer of MONOFLEX previously applied. [fig. 11]
- Evenly cover BANDTEC with a second layer of MONOFLEX. Alternatively, use a roller. [fig. 12-13]
- Leave until the product is completely dry. [fig. 14]

## Laying cement-based adhesives

- When MONOFLEX is completely dry, proceed to laying modified cement-based adhesives with resins in class C2S2 that are compliant with the covering to be laid.

## Grouting

- When the floor has been laid, apply the grouting and seal the joints with suitable epoxy grout sealant.



## Recommendations

To best use the technical characteristics of bituminous membranes and guarantee the maximum performance and durability of the jobs where they are used, some simple but fundamental rules must be respected.

- The rolls are to be stored in an upright position, indoors in a dry and ventilated area, away from heat sources. Absolutely avoid the stacking of rolls and pallets for storage or transport to avoid possible deformations which may compromise a perfect installation. It is recommended to store the product at temperatures above 0°C.
- The rolls shall be kept in a warm or heated storage area during application, should the workability of the material deteriorate or become stiff and difficult to install during application, these should be returned to the heated storage area and substituted with new rolls. The rolls that are temporarily stored on the roof before application, shall be kept elevated by being left on their own pallets and shall be covered and protected from the weather.
- The application surface must be smooth dry & clean.
- The application must be done at temperature higher than +5°C.
- The application must be interrupted in adverse weather conditions (high humidity, rain, etc.).
- The pallets on which the rolls are packaged are intended for normal warehouse use.
- The materials on stock should be rotated following a first in first out rotation.