

Corotop[®]
MORE THAN RESISTANCE

**MEMBRANAS TRANSPIRABLES Y PANTALLAS
IMPERMEABILIDAD AGUA-AIRE-VIENTO**



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Corotop Light

Roof underlayment

Highly vapour-permeable, three-layer roof membrane of functional film secured from both sides with polypropylene vielses. The functional film provides resistance to water penetration and regulates vapour permeability balance in a roof system. Applied only on partly-boarded roofs.

Advantages

- ✓ protects thermal insulation against damping
- ✓ minimises heat loss
- ✓ reduces energy consumption
- ✓ reduces CO₂ emissions to the atmosphere

Application

- ✓ on roofs with partial-boarding
- ✓ as initial covering of sloped, insulated, ventilated roofs
- ✓ to be used to most types of roof coverage, particularly under concrete tiles
- ✓ as the wind- barrier in a siding method



High resistance to water penetration



High vapour permeability



Three layer construction



Energy saving



Conformité Européenne

Characteristics

Material	polypropylene	Resistance to artificial aging associated with mechanical properties:	
Number of layers	3	Tensile strength (along)	200 N/50 mm
Mass per unit area	100 g/m ² ± 10%	Tensile strength (across)	145 N/50 mm
Colour	grey, white	Elongation (along)	50 %
Width	1,5 m	Elongation (across)	105 %
Length	50 m	Flexibility at low temperature	≥ -40°C
Reaction on fire	class E*	Alignment	requirements met
Resistance to water penetration	class W1	Stability of dimensions	< 2%
Resistance to water penetration after artificial aging	class W1	Temperature resistance	-40 to +80°C
Water vapor diffusion (Sd)	0,02 m	Meet the requirements: EN 13859-1:2010, EN 13859-2:2010	
UV resistance	max. 3mo*	* The product is attached directly to any underlays with the A1 or A2-s1, d0 flammability classes (e.g. mineral wool) and to wood substrates with a minimum density of 338 kg/m ³ (Article 5.3.2.3, EN 13238)	
Tensile strength (along)	250 N/50 mm	* refers to the annual average insolation; as the periodic insolation increases, the duration of maximum exposure to UV radiation decreases proportionally	
Tensile strength (across)	150 N/50 mm		
Elongation (along)	70 %		
Elongation (across)	130 %		
Tear resistance MD (along)	120 N		
Tear resistance CD (across)	160 N		



Corotop Classic

Roof underlayment

Highly vapour-permeable, three-layer roof membrane made of a functional film protected on both sides with polypropylene non-woven fabric. It provides resistance to water penetration and regulates the flow of water vapour through the roof system. Available with 40 mm wide adhesive strips.

Advantages

- ✓ protects the thermal insulation against moisture
- ✓ minimises heat loss
- ✓ reduces energy consumption
- ✓ reduces CO₂ emissions to the atmosphere

Application

- ✓ on roofs with full or part-boarding
- ✓ as initial covering of sloped, insulated, ventilated roofs
- ✓ for most types of roofing, in particular concrete tiles and steel roofing tiles
- ✓ as air barrier in the siding method



High resistance to water penetration



High vapour permeability



Three layer construction



Energy saving



Conformité Européenne

Characteristics

Material	polypropylene	Resistance to artificial aging associated with mechanical properties:	
Number of layers	3	Tensile strength (along)	265 N/50 mm
Mass per unit area	130 g/m ² ±10%	Tensile strength (across)	165 N/50 mm
Colour	grey, anthracite	Elongation (along)	35 %
Width	1,5 m	Elongation (across)	35 %
Length	50 m	Flexibility at low temperature	≥ -40°C
Reaction on fire	class E*	Alignment	requirements met
Resistance to water penetration	class W1	Stability of dimensions	< 2%
Resistance to water penetration after artificial aging	class W1	Temperature resistance	-40 to +80°C
Water vapor diffusion (Sd)	0,02 m	Meet the requirements: EN 13859-1:2010, EN 13859-2:2010	
UV resistance	max. 3mo*	* The product is attached directly to any underlays with the A1 or A2-s1, d0 flammability classes (e.g. mineral wool) and to wood substrates with a minimum density of 338 kg/m ³ (Article 5.3.2.3, EN 13238)	
Tensile strength (along)	310 N/50 mm	* refers to the annual average insolation; as the periodic insolation increases, the duration of maximum exposure to UV radiation decreases proportionally	
Tensile strength (across)	220 N/50 mm		
Elongation (along)	60 %		
Elongation (across)	60 %		
Tear resistance MD (along)	170 N		
Tear resistance CD (across)	240 N		



Corotop Red Strong

Roof underlayment

Highly vapour-permeable, three-layer roof membrane made of a functional film protected on both sides with polypropylene non-woven fabric. It provides resistance to water penetration and regulates the flow of water vapour through the roof system. Available with 40 mm wide adhesive strips.



Advantages

- ✓ protects the thermal insulation against moisture
- ✓ minimises heat loss
- ✓ reduces energy consumption
- ✓ reduces CO₂ emissions to the atmosphere

Application

- ✓ on roofs with full or part-boarding
- ✓ as initial covering of sloped, insulated, ventilated roofs
- ✓ for most types of roofing, in particular concrete tiles and steel roofing tiles
- ✓ as air barrier in the siding method



High resistance to water penetration



High vapour permeability



Three layer construction



Energy saving



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Characteristics

Material	polypropylene	Resistance to artificial aging associated with mechanical properties:	
Number of layers	3	Tensile strength (along)	375 N/50 mm
Mass per unit area	180 g/m ² ± 10%	Tensile strength (across)	250 N/50 mm
Colour	red, anthracite	Elongation (along)	55 %
Width	1,5 m	Elongation (across)	85 %
Length	50 m	Flexibility at low temperature	≥ -40°C
Reaction on fire	class E*	Alignment	requirements met
Resistance to water penetration	class W1	Stability of dimensions	< 2%
Resistance to water penetration after artificial aging	class W1	Temperature resistance	-40 to +80°C
Water vapor diffusion (Sd)	0,02 m		
UV resistance	max. 3mo*	Meet the requirements: EN 13859-1:2010, EN 13859-2:2010	
Tensile strength (along)	450 N/50 mm	* The product is attached directly to any underlays with the A1 or A2-s1, d0 flammability classes (e.g. mineral wool) and to wood substrates with a minimum density of 338 kg/m ³ (Article 5.3.2.3, EN 13238)	
Tensile strength (across)	300 N/50 mm	* refers to the annual average insolation; as the periodic insolation increases, the duration of maximum exposure to UV radiation decreases proportionally	
Elongation (along)	85 %		
Elongation (across)	130 %		
Tear resistance MD (along)	250 N		
Tear resistance CD (across)	350 N		

Corotop PURE

Roof underlayment

Highly vapour-permeable membrane with high resistance to mechanical damage. Made of two layers of polypropylene non-woven and stabilized on the UV-radiated functional film. Product packaging made from recycled materials, in accordance with the "less waste" concept, which reduces the use of natural resources. Available with 40 mm wide adhesive strips.

Advantages

- ✓ high mechanical strength
- ✓ packaging recycled - in accordance with "less waste" concept
- ✓ protects the thermal insulation against moisture
- ✓ minimises heat loss

Application

- ✓ for roofs with open and full sheathing
- ✓ as initial covering of sloped, insulated, ventilated roofs
- ✓ for most types of roofing, in particular concrete tiles and steel roofing tiles
- ✓ as air barrier in the siding method



High resistance to water penetration



High vapour permeability



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sustainable & eco-friendly packaging



reduced carbon footprint

Characteristics

Material	polypropylene
Number of layers	3
Mass per unit area	205 g/m ² ±10 %
Colour	green, anthracite
Width	1,5 m
Length	50 m
Reaction on fire	class E
Resistance to water penetration	class W1
Resistance to water penetration after artificial aging	class W1
Water vapor diffusion [Sd]	0,07 m
Tensile strength (along)	500 N/50 mm
Tensile strength (across)	270 N/50 mm
Elongation (along)	60 %
Elongation (across)	90 %
Tear resistance MD (along)	210 N
Tear resistance CD (across)	300 N

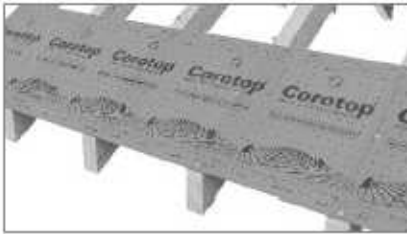
Flexibility at low temperature	-40°C
Alignment	requirements met
Stability of dimensions	<2 %
Temperature resistance	-40°C to +80°C

Meet the requirements: EN 13859-1:2010, EN 13859-2:2010

Installation



1. Unfold the membrane parallel to the eaves with the inscriptions upwards.

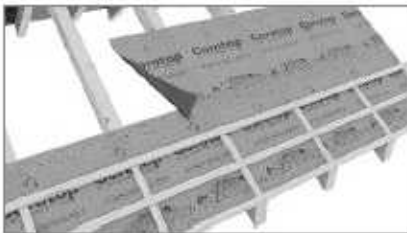


2. Tension the membrane lightly and fix to the rafter with staples or wide head nails (roofing nails).



3. Nail the counter-battens in such a way as to cover the points of the membrane punctured with staples or roofing nails. In order to seal the membrane, it is recommended (in case of roofs with pitches below 20° it is required) to apply sealing tape (e.g. Corotop Pur) on the pressure side of the membrane before installing a counter-batten.

The height of counter-battens must be selected according to DIN 4108-3:1996.



4. Further membrane strips should be installed with a suitable overlap, according to the imprint on the membrane.



5. In order to eliminate draughts in the roof baffle, it is recommended (in case of roofs with pitches below 20° it is required) to bond the membrane overlaps with with the double-sided tape (e.g. Corotop Mix) or the adhesive strips integrated in the membrane and glued one to another (PLUS version).

Packaging

Producto	Medidas/m ² rollo	Rollos/m ² por palet
Corotop Light	1,5 x 50 mts/ 75m ²	35 / 2625
Corotop Classic	1,5 x 50 mts/ 75m ²	24 / 1800
Corotop Red Strong	1,5 x 50 mts/ 75m ²	20 / 1500
Corotop Pure	1,5 x 50 mts/ 75m ²	20 / 1500

Storage

The rolls should be stored in an upright position under cover, ventilated, free from moisture place. Protect from chemical detergents, high temperatures and sunlight, as they are diminishing technical parameters of the material or cause permanent damage. The rolls must be transported in covered means of transport, protected from damage.



Corotop Variant

Vapour control membrane with variable vapour permeability

"Intelligent" vapour barrier, which adjusts the amount of water vapour flow to the moisture content between the structural partition and the interior of rooms. It ensures keeping the insulation material and the building structure dry. Product consists of polyester non-woven fabric and polyamide, active functional film.

Advantages

- ✓ "intelligent" vapour barrier
- ✓ ensures durability of the roof structure and thermal insulation
- ✓ the range of variation of the diffusion resistance
- ✓ helps to sustain healthy and fresh climate at the attic

Application

- ✓ to attics, walls and ceilings
- ✓ in rooms with increased humidity
- ✓ for the renovation of damaged roofs



double layer construction



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Parameters

Material	polyester, polyamide	Lengthwise tensile strength	≥210 N/50 mm
Number of layers	2	Crosswise tensile strength	≥40 N/50 mm
Mass per unit area	90 g/m ² ±10%	Lengthwise elongation	≥15 %
Colour	white	Crosswise elongation	≥20 %
Roll width	1,5 m	Lengthwise tear resistance	≥20 N
Roll length	50 m	Crosswise tear resistance	≥20 N
Reaction to fire	class E*		
Resistance to water penetration	meets the requirements of	Straightness	meets the requirements
Diffusion resistance factor (Sd)	0,2-20 m	Dimensional stability	< 2%

Meet the standard: EN 13984:2013

* The product is attached directly to any underlays with the A1 or A2-s1, d0 flammability classes (e.g. mineral wool) and to wood substrates with a minimum density of 338 kg/m³ (Article 5.3.2.3, EN 13238)

Corotop Metallic

Vapour Control Layer

A two-layer vapour control membrane based on polypropylene nonwoven with a layer of aluminium screen. Product resistant to mechanical damage. A product which actively provides vapour control for use as a vapour permeation regulator. It also saves energy by reflecting and retaining some of the energy that is transmitted in the form of infrared radiation.

Advantages

- ✓ reflective coating reduces heat loss
- ✓ actively regulates the water vapour level in the room
- ✓ protects the thermal insulation against the harmful effects of water and moisture
- ✓ helps maintain a healthy and fresh climate in the attic

Application

- ✓ for attics, walls and ceilings



double layer construction



energy saving



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Parameters

Material	polypropylene, aluminium	Lengthwise tensile strength	≥ 185 N/50 mm
Number of layers	2	Crosswise tensile strength	≥ 140 N/50 mm
Mass per unit area	80 g/m ² ±10%	Lengthwise elongation	≥50 %
Colour	beige, silver	Crosswise elongation	≥10 %
Roll width	1.5 m	Lengthwise tear resistance	≥40 N
Roll length	50 m	Crosswise tear resistance	≥60 N
Reaction to fire	class E*	Straightness	meets the requirements
Resistance to water penetration	meets the requirements of	Dimensional stability	< 2%
Impact resistance	≥ 300 mm		
Diffusion resistance factor [Sd]	75 m		

Meets the standard: EN 13984:2013

*The product is attached directly to any underlays with the A1 or A2-s1, d0 flammability classes (e.g. mineral wool) and to wood substrates with a minimum density of 338 kg/m³ (Article 5.3.2.3, EN 13238)

Corotop Active Control

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Vapour Control Membrane

A two-layer vapour control membrane based on polypropylene non-woven fabric. Active vapour-barrier product to be used as a steam penetration regulator. It resists water vapour, preventing excess water vapour from accumulating between the G-K board and the thermal insulation.



Advantages

- ✓ protects the thermal insulation against the harmful effects of moisture
- ✓ prevents the occurrence of mould and fungi
- ✓ actively regulates the water vapour level in the room

Application

- ✓ as an insulating and regulating layer for water vapour in wall, floor, attic, roof and ceiling structures
- ✓ used in addition to the highly vapour-permeable membrane in the roof system



double layer construction



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Parameters

Material	polypropylene	Lengthwise tensile strength	≥ 160 N/50 mm
Number of layers	2	Crosswise tensile strength	≥ 110 N/50 mm
Mass per unit area	100 g/m ² ±10%	Lengthwise elongation	≥ 70 %
Colour	white	Crosswise elongation	≥ 90 %
Roll width	1.5 m	Lengthwise tear resistance	≥ 110 N
Roll length	50 m	Crosswise tear resistance	≥ 150 N
Reaction to fire	class E*	Straightness	meets the requirements
Resistance to water penetration	meets the requirements of	Dimensional stability	< 2%
Impact resistance	≥ 300 mm		
Diffusion resistance factor [Sd]	15 m		

Meet the standard: EN 13984:2013

*The product is attached directly to any underlays with the A1 or A2-s1, d0 flammability classes (e.g. mineral wool) and to wood substrates with a minimum density of 338 kg/m³ (Article 5.3.2.3, EN 13238)

Installation



1. Fix the vapour control layer strips horizontally (preferably from top to bottom) or vertically with inscriptions on the inside with pre-installed double-sided tape (e.g. Corotop MIX) or, if the situation requires it (e.g. timber frame), with a stapler. Cover the places where the vapour control layer is perforated by staples with adhesive tape (e.g. Corotop FIX).



2. Further vapour control layer strips should be installed with a suitable overlap, which is printed on the membrane and bonded with single-sided (e.g. Corotop FIX) or double-sided tape (e.g. Corotop MIX).



3. The places where vapour control layer connects to the wall should be sealed with special adhesive or butyl tape (e.g. Corotop BUTYL). It is recommended to use an additional hold down strip and to leave about 2 cm of excess foil (folds).



4. Seal all places where service lines pass through the vapour control layer (e.g. electrical cables, pipes, etc.) thoroughly with special adhesive or adhesive tape (e.g. Corotop FIX, Corotop BUTYL).

Packaging

Producto	Medidas/m ² rollo	Rollos/m ² por palet
Corotop Variant	1,5 x 50 mts/ 75m ²	35 / 2625
Corotop Metallic	1,5 x 50 mts/ 75m ²	40 / 3000
Corotop Active Control	1,5 x 50 mts/ 75m ²	35 / 2625

Storage

The rolls should be stored in an upright position under cover, ventilated, free from moisture place. Protect from chemical detergents, high temperatures and sunlight, as they are diminishing technical parameters of the material or cause permanent damage. The rolls must be transported in covered means of transport, protected from damage.

CoroVIN

Corotop
MORE THAN RESISTANCE

Facade membrane

Single-layer, high vapour-permeable product. It protects walls against heat shortages caused by draught. It also prevents buildings from dampening as well as blowing away and collecting of any contamination.

Advantages

- ✓ protects building's elevation by increasing its durability
- ✓ increases building's energy-saving and eliminates heat shortages through walls
- ✓ light and easy in application

Application

- ✓ on external building walls in a wood or steel frame construction
- ✓ on inside house walls made of logs
- ✓ in ventilated elevation systems
- ✓ under siding (woofromen, PVC, fiberglass etc.)



High vapour permeability



Energy saving



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Parameters

Material	polypropylen
Number of layers	1
Mass per unit area	100g/m ² ±10%
Colour	grey
Roll width	1,5 m
Roll length	50 m
Reaction to fire performance	class F
Resistance to water penetration	W3
Water vapor diffusion [Sd]	0,01 m
Tensile strength (along)	195 N/50 mm
Tensile strength (across)	120 N/50 mm

Elongation (along)	100 %
Elongation (across)	100 %
Tear resistance (along)	145 N
Tear resistance (across)	180 N
Alignment	meets the requirements
Stability of dimensions	< 2%

Meet the requirements: EN 13859-2:2010



Corotop Open

Closed and open facade membrane up to a joint width of 2 cm

Two-layer facade membrane made of non-woven polyester coated with polyurethane film. It provides high protection against external moisture, but also protects against weathering. For use in wall constructions with ventilated facades with open joints of up to 2 cm in width and a maximum joint share of up to 20 % in area.

Advantages

- ✓ protects building's elevation by increasing its durability
- ✓ increases building's energy-saving and eliminates heat shortages through walls
- ✓ light and easy in application

Application

- ✓ on external building walls in a wood or steel frame construction
- ✓ on inside house walls made of logs
- ✓ in ventilated elevation systems



High resistance to water penetration



High vapour permeability



Energy saving



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Parameters

Material	polyester, polyurethane	Elongation (along)	35 %
Number of layers	2	Elongation (across)	50 %
Mass per unit area	200g/m ² ±10 %	Tear resistance (along)	100 N
Colour	black	Tear resistance (across)	120 N
Roll width	1,5 m	Alignment	meets the requirements
Roll length	50 m	Stability of dimensions	< 2%
Reaction to fire performance	class E*	Flexibility at low temperature	≥ -40°C
Resistance to water penetration	W1	Temperature resistance	-40 to +80°C
Water vapor diffusion (Sd)	0,08 m		
UV resistance	max. 3mo*	Meet the requirements: EN 13859-1:2010, EN 13859-2:2010	
Tensile strength (along)	260 N/50 mm	*The product is attached directly to any underlays with the A1 or A2 s1, d0 flammability classes (e.g. mineral wool) and to wood substrates with a minimum density of 338 kg/m ³ (Article 5.3.2.3, EN 13238)	
Tensile strength (across)	160 N/50 mm	* refers to the annual average insolation; as the periodic insolation increases, the duration of maximum exposure to UV radiation decreases proportionally	

Installation



1. The façade membrane (air barrier) is fixed horizontally (from bottom to top) or vertically with inscriptions on the outside.



2. Tension the membrane lightly and fix to the structure with staples or wide head nails (roofing nails).



3. Fix the next air barrier strips with a suitable overlap, which is printed on the membrane. The vertical overlap must be at least 30 cm.



4. In order to eliminate air flow in the wall, it is required to bond the air barrier overlaps with double-sided tape (e.g. Corotop MIX) or single-sided tape (e.g. Corotop FIX) or adhesive strips integrated into the membrane (PLUS version).



5. Provide a minimum ventilation space of 2 cm between the air barrier and the façade.

Packaging

Producto	Medidas/m ² rollo	Rollos/m ² por palet
Corotop Corovin	1,5 x 50 mts/ 75m ²	35 / 2625
Corotop Open	1,5 x 50 mts/ 75m ²	24 / 1800

Storage

The rolls should be stored in an upright position under cover, ventilated, free from moisture place. Protect from chemical detergents, high temperatures and sunlight, as they are diminishing technical parameters of the material or cause permanent damage. The rolls must be transported in covered means of transport, protected from damage.

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