Icopal Universal SA



Article number: 10038448

Application

Icopal Universal SA can be applied in one layer as an edge strip for roof edge finishes and rising work or as a gutter finish. Icopal Universal SA allows itself to be easily apply the self-adhesive coating on the underside to a surface that has been treated with Icopal SA Primer or Syntan® coating. Overlaps are welded with hot air.

Icopal Universal SA is used as an edge strip for fire-safe detailing in

combination with Icopal Universal or as a gutter finish.

Maximum curb height (without additional mechanical mounting) 250mm

For roofing systems to be used, see KOMO attest-with-product certificate.

Certificates

KOMO attest-met-productcertificate: K66715,

Declaration of Performance according to EN 13707 (CE),

NL-BSB product certificate: K66717 (environmental hygienic properties).

Directions of application

Icopal Universal SA can be cut lengthwise, resulting in 2 strips, each with its

own longitudinal overlap.

Processing in accordance with processing guidelines issued by BMI

Nederland BV.

Self-adhesive products must be processed at temperatures above 10°C, the material and substrate temperature must also be above 10°C.

Delivery Conditions

Delivery form

24 rolls of Icopal Universal SA packed in tapes, shrink-wrapped on one way pallets (80 X 120).

Storage and transport

Icopal Universal SA must be stored vertically on a dry and flat surface, at a temperature between 0 and 40°C. Direct sunlight should be avoided during storage.

Shelf life up to 6 months after stated production date.

Product identification

Information on the rol: Product name.

Dimensions. Approvals. Production date.

Product description

Appearance top side	PP Spunbond		
Coating top side	POCB Compound		
Reinforcement	Polyester/fibreglass fleece + P/G-reinforced		
Coating bottom side	POCB Compound and self-adhesive coating		
Appearance bottom side	PP-release foil		

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Product performance according to EN 13707

Length EN 1848-1 7,5 m Width EN 1848-1 1,0 m Straightness EN 1848-1 ≤ 10 - Mass per surface unit EN 1849-1 3,3 ± 10% kg/m² Thickness EN 1849-1 3,3 ± 0,2 mm External fire resistance EN 1859-1 Class E Waterlightness EN 13501-1 Class E Waterlightness EN 1928 Pass ≥ 300 kPa Tensile strength MD EN 12311-1 1250 ± 20% N/50mm Tensile strength CD EN 12311-1 1050 ± 20% N/50mm Elongation MD EN 12311-1 30 ± 15 %abs % Elongation CD EN 12311-1 30 ± 15 %abs % Resistance to root penetration EN 12311-1 35 ± 15 %abs % Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to static loading (B, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (A, hard substrate) EN 12691 ≥ 1250 mm </th <th>Product specifications</th> <th>Method</th> <th>Performance</th> <th>Units</th>	Product specifications	Method	Performance	Units
Width	Visible defects	EN 1850-1	Pass	-
Straightness EN 1848-1 ≤ 10 - Mass per surface unit EN 1849-1 3,3 ± 10% kg/m² Thickness EN 1849-1 3,3 ± 0,2 mm External fire resistance EN 1187 NPD° Reaction to fire EN 13501-1 Class E Watertightness EN 1928 Pass ≥ 300 kPa Tensile strength MD EN 12311-1 1250 ± 20% N/50mm Tensile strength CD EN 12311-1 1050 ± 20% N/50mm Elongation MD EN 12311-1 30 ± 15 %abs % Elongation CD EN 12311-1 35 ± 15 %abs % Resistance to root penetration EN 12311-1 35 ± 15 %abs % Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to static loading (B, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12991 ≥ 1250 m Tear resistance (riall shank) MD and CD </td <td>Length</td> <td>EN 1848-1</td> <td>7,5</td> <td>m</td>	Length	EN 1848-1	7,5	m
Mass per surface unit EN 1849-1 3,3 ± 10% kg/m² Thickness EN 1849-1 3,3 ± 0,2 mm External fire resistance EN 1187 NPD° Reaction to fire EN 13501-1 Class E Watertightness EN 1928 Pass ≥ 300 kPa Tensile strength MD EN 12311-1 1250 ± 20% N/50mm Tensile strength CD EN 12311-1 1050 ± 20% N/50mm Elongation MD EN 12311-1 30 ± 15 %abs % Elongation CD EN 12311-1 35 ± 15 %abs % Resistance to root penetration EN 13948 NPD¹ - Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to impact (A, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance (nail shank) MD and CD EN 12310-1 300 -0/+250 N Peel strength of joints EN 12316-1 50 -0/+100 N/50mm Shear resistance of joints (Sid	Width	EN 1848-1	1,0	m
Thickness EN 1849-1 3,3 ± 0,2 mm External fire resistance EN 1187 NPD* Reaction to fire EN 13501-1 Class E Watertightness EN 1928 Pass ≥ 300 kPa Tensile strength MD EN 12311-1 1250 ± 20% N/50mm Tensile strength CD EN 12311-1 1050 ± 20% N/50mm Elongation MD EN 12311-1 30 ± 15 %abs % Elongation CD EN 12311-1 35 ± 15 %abs % Resistance to root penetration EN 13948 NPD¹ - Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to impact (A, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance (nail shank) MD and CD EN 12310-1 300 -0/+250 N Peel strength of joints EN 12316-1 50 -0/+100 N/50mm Shear resistance of joints (Side laps and End laps) EN 12317-1 800 -0/+700 N/50mm <	Straightness	EN 1848-1	≤ 10	-
External fire resistance EN 1187 NPD' Reaction to fire EN 13501-1 Class E Watertightness EN 1928 Pass ≥ 300 kPa Tensile strength MD EN 12311-1 1250 ± 20% N/50mm Tensile strength CD EN 12311-1 1050 ± 20% N/50mm Elongation MD EN 12311-1 30 ± 15 %abs % Elongation CD EN 12311-1 35 ± 15 %abs % Resistance to root penetration EN 13948 NPD¹ - Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to static loading (B, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (A, hard substrate) EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance to impact (B, soft substrate) EN 12301-1 300 -0/+250 N Resistance to impact (B, soft substrate) EN 12301-1 300 -0/+250 N Resistance to impact (B, soft substrate) EN 12310-1 300 -0/+250	Mass per surface unit	EN 1849-1	3,3 ± 10%	kg/m²
Reaction to fire EN 13501-1 Class E Watertightness EN 1928 Pass ≥ 300 kPa Tensile strength MD EN 12311-1 1250 ± 20% N/50mm Tensile strength CD EN 12311-1 1050 ± 20% N/50mm Elongation MD EN 12311-1 30 ± 15 %abs % Elongation CD EN 12311-1 35 ± 15 %abs % Resistance to root penetration EN 13948 NPD¹ - Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to static loading (B, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (A, hard substrate) EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance (nail shank) MD and CD EN 12310-1 300 -0/+250 N Peel strength of joints EN 12316-1 50 -0/+100 N/50mm Shear resistance of joints (Side laps and End laps) EN 12310-1	Thickness	EN 1849-1	3,3 ± 0,2	mm
Watertightness EN 1928 Pass ≥ 300 kPa Tensile strength MD EN 12311-1 1250 ± 20% N/50mm Tensile strength CD EN 12311-1 1050 ± 20% N/50mm Elongation MD EN 12311-1 30 ± 15 %abs % Elongation CD EN 12311-1 35 ± 15 %abs % Resistance to root penetration EN 13948 NPD¹ - Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to static loading (B, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (A, hard substrate) EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance (nail shank) MD and CD EN 12310-1 300 -0/+250 N Peel strength of joints EN 12316-1 50 -0/+100 N/50mm Shear resistance of joints (Side laps and End laps) EN 12317-1 800 -0/+700 N/50mm Flexibility at low temperature EN 1109 ≤ -25 °C Thermal ageing: Flexibility at low temper	External fire resistance	EN 1187	NPD*	
Tensile strength MD EN 12311-1 1250 ± 20% N/50mm Tensile strength CD EN 12311-1 1050 ± 20% N/50mm Elongation MD EN 12311-1 30 ± 15 %abs % Elongation CD EN 12311-1 35 ± 15 %abs % Resistance to root penetration EN 13948 NPD¹ - Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to static loading (B, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (A, hard substrate) EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance (nail shank) MD and CD EN 12310-1 300 -0/+250 N Peel strength of joints EN 12316-1 50 -0/+100 N/50mm Shear resistance of joints (Side laps and End laps) EN 12317-1 800 -0/+700 N/50mm Flexibility at low temperature EN 1109 ≤ -25 °C Thermal ageing: Flexibility at low temperature (top/bottom) EN 1296 & EN 1110 -25/-10 +0/-10 °C	Reaction to fire	EN 13501-1	Class E	
Tensile strength CD EN 12311-1 1050 ± 20% N/50mm Elongation MD EN 12311-1 30 ± 15 %abs % Elongation CD EN 12311-1 35 ± 15 %abs % Resistance to root penetration EN 13948 NPD¹ - Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to static loading (B, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (A, hard substrate) EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance (nail shank) MD and CD EN 12310-1 300 -0/+250 N Peel strength of joints EN 12316-1 50 -0/+100 N/50mm Shear resistance of joints (Side laps and End laps) EN 12317-1 800 -0/+700 N/50mm Flexibility at low temperature EN 1109 ≤ -25 °C Thermal ageing: Flexibility at low temperature (top/bottom) EN 1296 & EN 1110 ≥ 150 // ≥ 100 °C Thermal ageing: Flow resistance at elevated temperature (top/bottom) EN 1296 & EN 1110 <t< td=""><td>Watertightness</td><td>EN 1928</td><td>Pass</td><td>≥ 300 kPa</td></t<>	Watertightness	EN 1928	Pass	≥ 300 kPa
Elongation MD	Tensile strength MD	EN 12311-1	1250 ± 20%	N/50mm
Elongation CD EN 12311-1 35 ± 15 %abs Resistance to root penetration EN 13948 NPD¹ - Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to static loading (B, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (A, hard substrate) EN 12691 EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance (nail shank) MD and CD EN 12310-1 300 -0/+250 N Peel strength of joints EN 12316-1 50 -0/+100 N/50mm Shear resistance of joints (Side laps and End laps) EN 12317-1 800 -0/+700 N/50mm Flexibility at low temperature EN 1109 ≤ -25 °C Thermal ageing: Flexibility at low temperature (top//bottom) EN 1296 & EN 1109 -25//-10 +0/-10 °C Thermal ageing: Flow resistance at elevated temperature (top/bottom) EN 1297 NPD - Dimensional stability EN 12039 not applicable % Water vapour permeability (μ) EN 1931 20.000 -	Tensile strength CD	EN 12311-1	1050 ± 20%	N/50mm
Resistance to root penetration EN 13948 NPD¹ - Resistance to static loading (A, soft substrate) EN 12730 ≥ 20 kg Resistance to static loading (B, hard substrate) EN 12730 ≥ 10 kg Resistance to impact (A, hard substrate) EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance (nail shank) MD and CD EN 12310-1 300 -0/+250 N Peel strength of joints EN 12316-1 50 -0/+100 N/50mm Shear resistance of joints (Side laps and End laps) EN 12317-1 800 -0/+700 N/50mm Flexibility at low temperature EN 1109 ≤ -25 °C Thermal ageing: Flexibility at low temperature (top//bottom) EN 1296 & EN 1109 -25/-10 +0/-10 °C Flow resistance at elevated temperature (top//bottom) EN 1296 & EN 1110 ≥ 150 // ≥ 100 °C Thermal ageing: Flow resistance at elevated temperature (top//bottom) EN 1296 & EN 1110 150 // ≥ 100 °C Durability against UV exposure EN 1297 NPD - Dimensio	Elongation MD	EN 12311-1	30 ± 15 %abs	%
Resistance to static loading (A, soft substrate) Resistance to static loading (B, hard substrate) Resistance to static loading (B, hard substrate) Resistance to impact (A, hard substrate) Resistance to impact (B, soft substrate) Resistance to impact (B, soft substrate) Resistance to impact (B, soft substrate) Resistance (nail shank) MD and CD Resistance (nail shank) MD and CD Resistance (nail shank) MD and CD Resistance of joints Resistance of joints Resistance of joints Resistance (nail shank) MD and CD Resistance at least to impact (B, soft substrate) Resistance of joints Resistance of join	Elongation CD	EN 12311-1	35 ± 15 %abs	%
Resistance to static loading (B, hard substrate) Resistance to impact (A, hard substrate) Resistance to impact (B, soft substrate) Resistance to impact (B, soft substrate) Resistance (nail shank) MD and CD Resistance of joints Resistance of joints Resistance of joints (Side laps and End laps) Resistance of joints (Side laps and End laps) Resistance (Resistance of joints (Side laps and End laps) Resistance (Resistance of joints (Side laps and End laps)) Resistance (Resistance (Resistance of joints (Resistance (Resistance of joints (Resistance (Resistance of joints (Resistance of jo	Resistance to root penetration	EN 13948	NPD¹	-
Resistance to impact (A, hard substrate) EN 12691 ≥ 1250 mm Resistance to impact (B, soft substrate) EN 12691 ≥ 1250 mm Tear resistance (nail shank) MD and CD EN 12310-1 300 -0/+250 N Peel strength of joints EN 12316-1 50 -0/+100 N/50mm Shear resistance of joints (Side laps and End laps) EN 12317-1 800 -0/+700 N/50mm Flexibility at low temperature EN 1109 ≤ -25 °C Thermal ageing: Flexibility at low temperature (top//bottom) EN 1296 & EN 1109 -25//-10 +0/-10 °C Flow resistance at elevated temperature (top//bottom) EN 1110 ≥ 150 // ≥ 100 °C Thermal ageing: Flow resistance at elevated temperature (top//bottom) EN 1296 & EN 1110 150 // 100 °C Durability against UV exposure EN 1297 NPD - Dimensional stability EN 1107-1 ≤ 0,1 % Adhesion of granules EN 12039 not applicable % Water vapour permeability (μ) EN 1931 20.000 -	Resistance to static loading (A, soft substrate)	EN 12730	≥ 20	kg
Resistance to impact (B, soft substrate) $EN 12691$ ≥ 1250 mm Tear resistance (nail shank) MD and CD $EN 12310-1$ $300 - 0/+250$ N Peel strength of joints $EN 12316-1$ $50 - 0/+100$ N/50mm Shear resistance of joints (Side laps and End laps) $EN 12317-1$ $800 - 0/+700$ N/50mm Flexibility at low temperature $EN 1109$ ≤ -25 °C Thermal ageing: Flexibility at low temperature (top//bottom) $EN 1296 \& EN 1109$ $-25//-10 + 0/-10$ °C Flow resistance at elevated temperature (top/bottom) $EN 1110$ $\geq 150 \text{ // } \geq 100$ °C Thermal ageing: Flow resistance at elevated temperature (top/bottom) $EN 1296 \& EN 1110$ $-150 \text{ // } \geq 100$ °C Thermal ageing: Flow resistance at elevated temperature (top/bottom) $EN 1296 \& EN 1110$ $-150 \text{ // } \geq 100$ °C Durability against UV exposure $EN 1297$ $EN 1299$	Resistance to static loading (B, hard substrate)	EN 12730	≥ 10	kg
Tear resistance (nail shank) MD and CD	Resistance to impact (A, hard substrate)	EN 12691	≥ 1250	mm
Peel strength of joints	Resistance to impact (B, soft substrate)	EN 12691	≥ 1250	mm
Shear resistance of joints (Side laps and End laps) EN 12317-1 800 -0/+700 N/50mm Flexibility at low temperature EN 1109 \leq -25 °C Thermal ageing: Flexibility at low temperature (top//bottom) EN 1296 & EN 1109 \geq 150 // \geq 100 °C Thermal ageing: Flow resistance at elevated temperature (top/bottom) EN 1110 \geq 150 // \geq 100 °C Thermal ageing: Flow resistance at elevated temperature (top/bottom) EN 1296 & EN 1110 $=$ 150 // 100 $=$ 0/+30 °C Durability against UV exposure EN 1297 NPD Dimensional stability EN 1107-1 \leq 0,1 % Adhesion of granules EN 12039 not applicable % Water vapour permeability (μ) EN 1931 20.000 -	Tear resistance (nail shank) MD and CD	EN 12310-1	300 -0/+250	N
Flexibility at low temperature $EN 1109 \le -25$ °C Thermal ageing: Flexibility at low temperature (top//bottom) $EN 1296 \& EN 1109 -25//-10 +0/-10$ °C Flow resistance at elevated temperature (top/bottom) $EN 1110 \ge 150 \text{ //} \ge 100$ °C Thermal ageing: Flow resistance at elevated temperature (top/bottom) $EN 1296 \& EN 1110 $ $150 \text{ //} 100 -0/+30$ °C Durability against UV exposure $EN 1297$ NPD - Dimensional stability $EN 1107-1 \le 0,1$ % Adhesion of granules $EN 12039$ not applicable % Water vapour permeability (μ) $EN 1931$ 20.000 -	Peel strength of joints	EN 12316-1	50 -0/+100	N/50mm
Thermal ageing: Flexibility at low temperature (top//bottom) EN 1296 & EN 1109 -25//-10 +0/-10 °C Flow resistance at elevated temperature (top/bottom) EN 1110 EN 1110 EN 1110 EN 1296 & EN 1110 C Thermal ageing: Flow resistance at elevated temperature (top/bottom) EN 1296 & EN 1110 EN 1297 NPD Dimensional stability EN 1107-1 EN 1107-1 SOLUTION OF C EN 1297 EN 1297 NPD Where the second of granules EN 1107-1 EN 1107	Shear resistance of joints (Side laps and End laps)	EN 12317-1	800 -0/+700	N/50mm
Flow resistance at elevated temperature (top/bottom) EN 1110 $\geq 150 \text{ //} \geq 100$ °C Thermal ageing: Flow resistance at elevated temperature (top/bottom) EN 1296 & EN 1110 $\frac{150 \text{ //} 100}{-0/+30}$ °C Durability against UV exposure EN 1297 NPD Dimensional stability EN 1107-1 $\leq 0,1$ % Adhesion of granules EN 12039 not applicable % Water vapour permeability (μ) EN 1931 20.000 -	Flexibility at low temperature	EN 1109	≤ -25	°C
Thermal ageing: Flow resistance at elevated temperature (top/bottom) EN 1296 & EN 1110 $\frac{150 \text{ // }100}{-0\text{/+}30}$ °C Durability against UV exposure EN 1297 NPD - Dimensional stability EN 1107-1 $\leq 0,1$ % Adhesion of granules EN 12039 not applicable % Water vapour permeability (μ) EN 1931 20.000 -	Thermal ageing: Flexibility at low temperature (top//bottom)	EN 1296 & EN 1109	-25//-10 +0/-10	°C
Durability against UV exposure $EN 1297 \ NPD \ -$ Dimensional stability $EN 1107-1 \ \le 0,1 \ \%$ Adhesion of granules $EN 12039 \ not applicable \ \%$ Water vapour permeability (μ) $EN 1931 \ 20.000 \ -$	Flow resistance at elevated temperature (top/bottom)	EN 1110	≥ 150 // ≥ 100	°C
Dimensional stability EN 1107-1 \leq 0,1 % Adhesion of granules EN 12039 not applicable % Water vapour permeability (μ) EN 1931 20.000 -	Thermal ageing: Flow resistance at elevated temperature (top/bottom)	EN 1296 & EN 1110		°C
Adhesion of granules EN 12039 not applicable % Water vapour permeability (µ) EN 1931 20.000 -	Durability against UV exposure	EN 1297	NPD	-
Water vapour permeability (μ) EN 1931 20.000 -	Dimensional stability	EN 1107-1	≤ 0,1	%
	Adhesion of granules	EN 12039	not applicable	%
Dangerous substances Complies	Water vapour permeability (µ)	EN 1931	20.000	-
	Dangerous substances		Complies	

¹⁾ No performance determined (not required according to EN 13707).

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^{*)} Note: since the external fire performance of a roof is dominated by the built up system, no performance can be assessed for the product alone (passes Broof(t1) according to K66715).