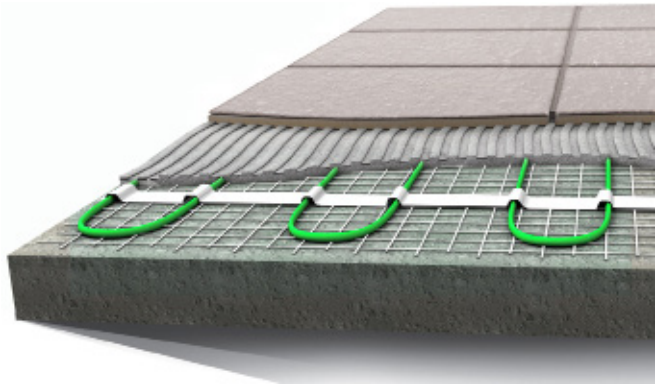
HEATCOM
SMART HEATING SOLUTIONS

Double-core ultrathin heating mat EcoPRO

Features

- The best solution for premises with low ceilings
- Cost and energy saving system
- Wide range of heating mat W/m² power outputs
- Maintenance-free and approved long-life performance
- Self-adhesive mats
- Simple installation



Description

Application

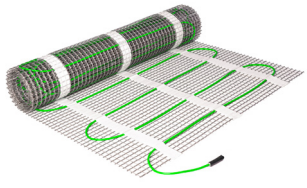
The ultrathin EcoPRO heating mat can be applied both as a direct heating or as a supplemental system providing comfort heating. The heating mat can be easily installed into a thin tile adhesive layer (8–10mm). The system can be used under any covering of your choice, e.g. tile, marble or carpet. It is applicable for all types of premises and can be easily installed both on a new surface or on the existing floor in case of repair works.

Construction

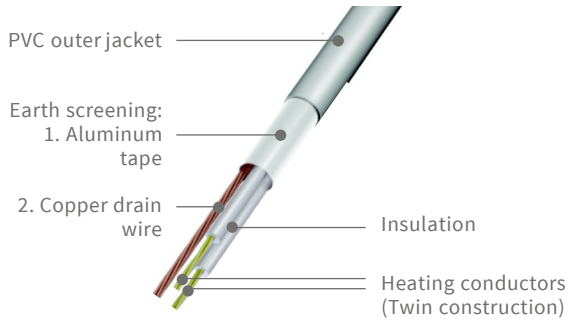
The double-core heating mat EcoPRO is made of a screened series resistance heating cable, affixed on a sticky fibreglass mesh with the help of an adhesive tape. The heating cable is arranged meandering on the mesh, and thus with constant cable-to-cable distance. The sheathing of the heating conductors with aluminum tape with 100% coverage inside the cable provides additional mechanical strength and, together with a copper drain wire, also serves as earth screen for safe use. It also ensures extremely low EMF. EcoPRO heating mat is equipped with a power-supply cable and a reliable coupling.
Thanks to the cable fixation on the mesh there is no need to adjust the cable spacings and to fix the cable on the floor surface. The 'Twin' technology with only one connection wire makes installation easier and reduces installation cost.

Application

Application		Installation	
Direct heating	●	Mortar / screed	
Comfort heating	●	Tile adhesive	●
		Levelling compound	●
		Floating	



Cable design



Technical data

Rated voltage	230 V AC
Nom. power output	100, 150, 160, 200 W/m²
Maximum operation temperature	+80 °C
Minimum operation temperature	–15 °C
Minimum storage temperature	–30 °C
Minimum installation temperature	+5 °C
Installation width	0.5 m
Cold lead length	3 m
Heating cable diameter	~ 3.2 mm
IP protection class	IPX7
Heating cable colour	green
Fiberglass mesh colour	grey
Certifications	CE VDE RoHS

Ordering information

EcoPRO-320-2.0/160

- Heating mat type
- Power, W
- Area, m²
- Power per square meter, W/m²

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Product references

Double-core ultrathin heating mat EcoPRO 100 W/m²						
Mat type	Mat width, m	Mat length, m	Area, m²	Power, W	Total resistance (Ω), Nom. @ +20°C (-5%, +10%)	Current, A
EcoPRO-100-1.0/100	0.5	2	1.0	100	529.0	0.43
EcoPRO-150-1.5/100	0.5	3	1.5	150	352.7	0.65
EcoPRO-200-2.0/100	0.5	4	2.0	200	264.6	0.87
EcoPRO-250-2.5/100	0.5	5	2.5	250	211.6	1.09
EcoPRO-300-3.0/100	0.5	6	3.0	300	176.3	1.30
EcoPRO-350-3.5/100	0.5	7	3.5	350	151.1	1.52
EcoPRO-400-4.0/100	0.5	8	4.0	400	132.3	1.74
EcoPRO-450-4.5/100	0.5	9	4.5	450	117.6	1.96
EcoPRO-500-5.0/100	0.5	10	5.0	500	105.8	2.17
EcoPRO-600-6.0/100	0.5	12	6.0	600	88.2	2.61
EcoPRO-700-7.0/100	0.5	14	7.0	700	75.6	3.04
EcoPRO-800-8.0/100	0.5	16	8.0	800	66.1	3.48
EcoPRO-900-9.0/100	0.5	18	9.0	900	58.8	3.91
EcoPRO-1000-10.0/100	0.5	20	10.0	1000	52.9	4.35
EcoPRO-1200-12.0/100	0.5	24	12.0	1200	44.1	5.22
EcoPRO-1500-15.0/100	0.5	30	15.0	1500	35.3	6.52

Double-core ultrathin heating mat EcoPRO 150 W/m²						
Mat type	Mat width, m	Mat length, m	Area, m²	Power, W	Total resistance (Ω), Nom. @ +20°C (-5%, +10%)	Current, A
EcoPRO-150-1.0/150	0.5	2	1.0	150	352.7	0.65
EcoPRO-225-1.5/150	0.5	3	1.5	225	235.1	0.98
EcoPRO-300-2.0/150	0.5	4	2.0	300	176.3	1.30
EcoPRO-375-2.5/150	0.5	5	2.5	375	141.1	1.63
EcoPRO-450-3.0/150	0.5	6	3.0	450	117.6	1.96
EcoPRO-525-3.5/150	0.5	7	3.5	525	100.7	2.28
EcoPRO-600-4.0/150	0.5	8	4.0	600	88.2	2.61
EcoPRO-675-4.5/150	0.5	9	4.5	675	78.4	2.93
EcoPRO-750-5.0/150	0.5	10	5.0	750	70.5	3.26
EcoPRO-900-6.0/150	0.5	12	6.0	900	58.8	3.91
EcoPRO-1050-7.0/150	0.5	14	7.0	1050	50.4	4.57
EcoPRO-1200-8.0/150	0.5	16	8.0	1200	44.1	5.22
EcoPRO-1350-9.0/150	0.5	18	9.0	1350	39.2	5.87
EcoPRO-1500-10.0/150	0.5	20	10.0	1500	35.3	6.52
EcoPRO-1800-12.0/150	0.5	24	12.0	1800	29.4	7.83
EcoPRO-2250-15.0/150	0.5	30	15.0	2250	23.5	9.78
EcoPRO-3000-20.0/150	0,5	40	20.0	3000	17.6	13.04

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Double-core ultrathin heating mat EcoPRO 160 W/m²						
Mat type	Mat width, m	Mat length, m	Area, m²	Power, W	Total resistance (Ω), Nom. @ +20°C (-5%, +10%)	Current, A
EcoPRO-80-0.5/160	0.5	1	0.5	80	661.3	0.35
EcoPRO-160-1.0/160	0.5	2	1.0	160	330.6	0.70
EcoPRO-240-1.5/160	0.5	3	1.5	240	220.4	1.04
EcoPRO-320-2.0/160	0.5	4	2.0	320	165.3	1.39
EcoPRO-400-2.5/160	0.5	5	2.5	400	132.3	1.74
EcoPRO-480-3.0/160	0.5	6	3.0	480	110.2	2.09
EcoPRO-560-3.5/160	0.5	7	3.5	560	94.5	2.43
EcoPRO-640-4.0/160	0.5	8	4.0	640	82.7	2.78
EcoPRO-720-4.5/160	0.5	9	4.5	720	73.5	3.13
EcoPRO-800-5.0/160	0.5	10	5.0	800	66.1	3.48
EcoPRO-960-6.0/160	0.5	12	6.0	960	55.1	4.17
EcoPRO-1120-7.0/160	0.5	14	7.0	1120	47.2	4.87
EcoPRO-1280-8.0/160	0.5	16	8.0	1280	41.3	5.57
EcoPRO-1440-9.0/160	0.5	18	9.0	1440	36.7	6.26
EcoPRO-1600-10.0/160	0.5	20	10.0	1600	33.1	6.96
EcoPRO-1920-12.0/160	0.5	24	12.0	1920	27.5	8.35
EcoPRO-2400-15.0/160	0.5	30	15.0	2400	22.0	10.43

Double-core ultrathin heating mat EcoPRO 200 W/m²						
Mat type	Mat width, m	Mat length, m	Area, m²	Power, W	Total resistance (Ω), Nom. @ +20°C (-5%, +10%)	Current, A
EcoPRO-100-0.5/200	0.5	1	0.5	100	529.0	0.43
EcoPRO-200-1.0/200	0.5	2	1.0	200	264.5	0.87
EcoPRO-300-1.5/200	0.5	3	1.5	300	176.3	1.30
EcoPRO-400-2.0/200	0.5	4	2.0	400	132.3	1.74
EcoPRO-500-2.5/200	0.5	5	2.5	500	105.8	2.17
EcoPRO-600-3.0/200	0.5	6	3.0	600	88.2	2.61
EcoPRO-700-3.5/200	0.5	7	3.5	700	75.6	3.04
EcoPRO-800-4.0/200	0.5	8	4.0	800	66.1	3.48
EcoPRO-900-4.5/200	0.5	9	4.5	900	58.8	3.91
EcoPRO-1000-5.0/200	0.5	10	5.0	1000	52.9	4.35
EcoPRO-1200-6.0/200	0.5	12	6.0	1200	44.1	5.22
EcoPRO-1400-7.0/200	0.5	14	7.0	1400	37.8	6.09
EcoPRO-1600-8.0/200	0.5	16	8.0	1600	33.1	6.96
EcoPRO-1800-9.0/200	0.5	18	9.0	1800	29.4	7.83
EcoPRO-2000-10.0/200	0.5	20	10.0	2000	26.4	8.70
EcoPRO-2400-12.0/200	0.5	24	12.0	2400	22.0	10.43
EcoPRO-3000-15.0/200	0.5	30	15.0	3000	17.6	13.04

Installation

Energy saving operation of the EcoPRO heating mat is ensured by installing an electronic temperature controller with an appropriate floor temperature sensor. The floor sensor must be positioned inside a conduit. It should be placed at heating level directly underneath the heating mat by chiselling out a channel in the subfloor.

The sensor should be centrally positioned between two heating conductors, which is in the middle of a cable loop. The thermostat should be mounted on the wall in the same room with the heating installed. Applicable norms and rules as well as installation manuals must be observed.

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