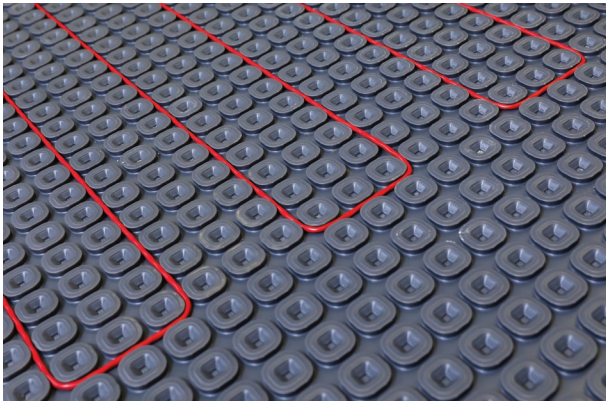


## MEMBRANE UNCOUPLING AND INTEGRATED FLOOR HEATING UNDERLAYMENT



### PRODUCT OVERVIEW

Nuheat Membrane is a tile underlayment that can be installed over the entire subfloor for uncoupling, crack isolation and waterproofing purposes. Nuheat Membrane replaces the need for a second layer of plywood or concrete backer board in most tile installations. Nuheat Membrane comprises of a polypropylene plastic layer that features square-shaped columns which form channels specially designed to embed and hold the Nuheat Cable Floor Heating System. The square-shaped columns provides a vapor management system which allows moisture to escape from the substrate during the curing process. The polypropylene layer is heat-welded to a non-woven polypropylene fabric which absorbs thinset and bonds the Nuheat Membrane to the subfloor.

The Nuheat Cable Floor Heating System can be installed directly into Nuheat Membrane in areas where heat is desired. Once Nuheat Cable is installed, tiling can begin immediately using thinset thereby eliminating the need to embed the heating cable in self-leveling compounds.

Additional benefits of Nuheat Membrane:

- Eliminates need for a second layer of plywood or concrete backer boards – reduces floor build-up
- Accepts use of modified and unmodified thinsets for tile setting
- Flexible cable spacing and heat output (10, 12, or 15 watts/sq ft)
- 'Extra Heavy' rating on Robinson Floor Test (ASTM C627)
- Available in roll and sheet formats
- 25-year product warranty

Installing Nuheat Membrane with Nuheat Cable significantly decreases the time, difficulty, floor height, weight, and cost of the overall floor heating installation.

# NUHEAT MEMBRANE

## PRODUCT SELECTION

### NUHEAT MEMBRANE SELECTION TABLE

Catalog number	Part Number	Description	Dimensions	Standard Package	
				Weight (lbs)	Size (in)
NUMEM161	AC0105	Nuheat Membrane - Large Roll (161 sq ft)	3'3" x 49.5 ft	30 lbs	39" x 14.5"
NUMEM054	AC0106	Nuheat Membrane - Small Roll (54 sq ft)	3'3" x 16.5 ft	10 lbs	39" x 9.5"
NUMEM250	FG0800	Nuheat Membrane - 10.6 sq ft Sheets (25 sheets per box)	3'3" x 3'3"	45 lbs	40" x 40" x 8"

### NUHEAT CABLE SELECTION TABLE

Model number	Square Foot Coverage			Length (ft)	Total Watts
	3 pillars*	2/3/2 pillars**	2 pillars*		
	10 watts/sq ft	12 watts/sq ft	15 watts/sq ft		
<b>120 Volt Kit</b>					
N1C008	9	8	6	29	80
N1C012	14	12	10	47	138
N1C015	17	15	12	57	170
N1C025	30	25	21	98	299
N1C030	36	31	25	120	343
N1C040	45	38	31	148	442
N1C050	57	48	39	188	562
N1C060	71	60	49	234	719
N1C070	81	68	55	265	810
N1C080	97	82	66	318	947
N1C085	102	86	69	334	1021
N1C095	115	97	78	377	1161
N1C110	129	109	88	423	1299
N1C120	145	122	98	474	1461

<b>240 Volt Kit</b>					
N2C015	17	14	12	56	165
N2C020	24	21	17	80	224
N2C025	31	26	21	102	302
N2C035	41	35	28	136	403
N2C045	54	46	37	178	523
N2C055	63	53	43	207	632
N2C065	76	64	52	250	742
N2C070	84	71	58	277	842
N2C085	102	86	69	334	1020
N2C090	109	92	74	358	1102
N2C100	120	101	82	393	1211
N2C120	145	121	98	472	1427
N2C135	162	136	110	529	1621
N2C145	172	144	116	561	1704
N2C160	193	162	131	630	1914
N2C170	204	171	138	665	2054
N2C190	233	195	157	757	2314
N2C215	261	219	176	849	2589
N2C240	293	246	198	953	2905

\* pillars of the uncoupling membrane.

† Our recommended spacing is alternating 2-3-2 pillar spacing which produces 12 watts/sq ft. If you are installing over a concrete slab and require more heat, we recommend using 2-pillar spacing which produces 15 watts/sq ft.

**ROBINSON FLOOR TEST (ASTM C627) RESULTS**

Report number	Substrate	Tile	Joist Spacing	Rating
TNCA-773-14	OSB/Plywood	12 x 12 Porcelain Tile	19.2" O.C	Extra Heavy
TNCA-772-14	Concrete	12 x 12 Porcelain Tile	N/A	Extra Heavy

**APPROVALS**



**NUHEAT MEMBRANE SPECIFICATIONS**

Material	Polypropylene plastic heat-welded to a non-woven polypropylene fabric
Thickness	0.22 in (5.5 mm)
Width	39 in (991 mm)
Weight	840 grams/m <sup>2</sup>
Storage Conditions	Store in a cool and dry place avoiding direct sunlight and heat sources

**NUHEAT CABLE SPECIFICATIONS**

Operating voltage	120 V, 208 V, and 240 V
Power output	10-15 watts per square foot (depending on wire spacing)
Minimum bending radius	0.5 in (12 mm)
Maximum continuous exposure temperature	194°F (90°C)
Minimum installation temperature	50°F (10°C)
Heating cable	2-wire, grounded, twisted pair with PVC outer jacket
Cold lead	2-wire, 16-18 AWG plus ground braid; 10 ft (3 m) length

**ACCESSORIES**

	Catalog number	Description
<b>Proband Waterproofing Seam Tape</b>	PRBPE 1505	6" (W) x 16 ft (L) waterproofing polyethylene tape used to waterproof seams and perimeter joints for waterproof applications. Comes in pack of 10.
<b>Proband Waterproofing Seam Tape</b>	PRBPE 1530	6" (W) x 98 ft (L) waterproofing polyethylene tape used to waterproof seams and perimeter joints for waterproof applications. Comes in pack of 6.

[WWW.NUHEAT.COM](http://WWW.NUHEAT.COM)

**NORTH AMERICA**

Tel: +1.800.545.6258  
Fax: +1.800.527.5703  
Tel: +1.650.216.1526  
Fax: +1.650.474.7711



@nuheat



@nuheat