

C-Replacing Tile Over Nuheat

To prevent damage to your Nuheat mat(s) while replacing a tile, follow these instructions:

Step 1C: Disconnect power to the Nuheat mat

Turn off the power to Nuheat at the main power box or have a certified electrician disconnect the wires from the relay or junction box.

Step 2C: Connect a multimeter to the mat lead wires

- i) Perform a continuous insulation test with your multimeter (see Step 1B — Installing Nuheat for instruction on performing an insulation test)
- ii) Monitor the readings on your multimeter as you replace the tile to ensure that the mat has not been damaged.

Step 3C: Score the grout around the tile

Use a grout scraper to score the grout 1/8" deep around the tile to be removed — this must be done carefully by hand. **DO NOT** use a power tool.

Step 4C: Break up the tile

Take a round-head hammer and carefully break up the tile starting from the center. Use only the force required to break the tile — excessive force can damage Nuheat.

Step 5C: Remove the tile from the thinset

Position a cold chisel at a steep angle and begin removing the tile from the thinset. When you find a Nuheat mat wire, move the chisel parallel to it remembering that wires are spaced apart by approximately 1½" — never cross the wires directly with your chisel.

Step 6C: Break up the thinset from the mat

Use a round-head hammer to break up the remaining thinset over the Nuheat mat. Remember to use only the force required to break the thinset — excessive force will damage Nuheat. Do not hit any of the Nuheat wires with your hammer.

Step 7C: Remove the thinset from the mat

- i) Locate a wire on the Nuheat mat
- ii) Position a cold chisel beside the wire
- iii) Run your chisel parallel to the wire line to remove the thinset — never cross the wire(s) with your chisel



- iv) Remember that the mat wires are spaced apart by approximately 1 1/2"
- v) Carefully remove the remaining grout around the bare space with your cold chisel to ensure that the replacement tile fits properly



Step 8C: Test the Nuheat mat

- i) See Step 1B in the Installing Nuheat section of this manual for instruction on how to perform an insulation test
- ii) Document your test results
- iii) Remember to run these tests continuously through-out the tile replacement process to ensure that the Nuheat mat has not been damaged

Step 9C: Apply a layer of acrylic or latex modified thinset

Run your trowel parallel to the wires of the mat as you lay your thinset



 **TIP:** To lay your replacement tile evenly to the surrounding tiles, try grinding down the back of the tile to remove some of the depth.

Step 10C: Lay down the replacement tile

Apply a coat of thinset to the back of the replacement tile. Set the tile into place and ensure that it is level with the floor.



Step 11C: Test the Nuheat mat

See Step 1B in the Installing Nuheat section of this manual for instruction on how to perform an insulation test and remember to document your test results.

Step 12C: Reconnect the Nuheat system

Remember that only a certified electrician can connect Nuheat to power. Be sure to advise the electrician and homeowner to keep the Nuheat floor-warming system off until the thinset and grout has properly cured according to the manufacturer specifications.