

# Mapeheat Mat Repair Kit

For Damage to Mapeheat™ Mat



Technology from



## DESCRIPTION

Mapeheat Mat Repair Kit contains all materials needed to repair Mapeheat Mat that has been damaged.

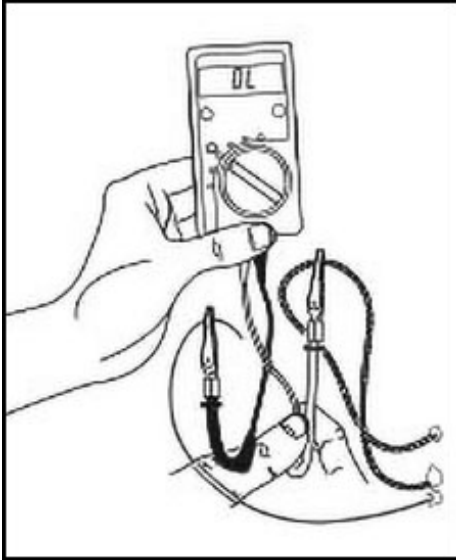
## BEFORE YOU START

### Repair Kit components

- 1 hollow piece of braid with lead wire inside
- 1 resistance wire
- 3 long solder sleeves
- 3 short solder sleeves

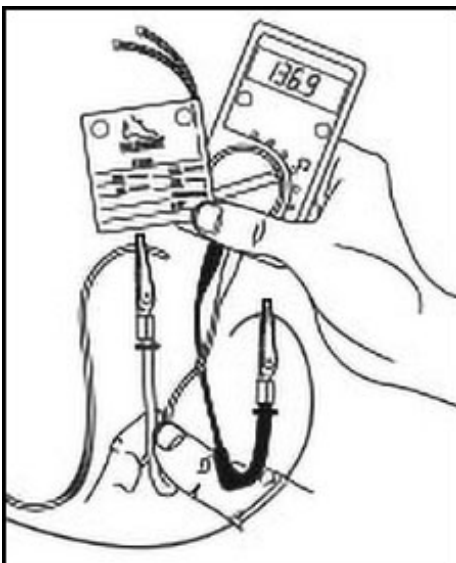
▲ DO NOT CONNECT MAPEHEAT MAT TO POWER DURING TESTING.

## HOW TO TEST



### Insulation test

1. To ensure that the copper conductors are fully insulated: Acquire a digital ohmmeter or multimeter with alligator clips or an equivalent testing device. Place one meter probe on the grounding outer metallic braid and the other probe on the copper wire inside the white lead.
2. Confirm that the reading is 1 million ohms to infinity.
3. Repeat these steps to check the reading between the metallic braid and the copper wire inside the black lead.



### Resistance test

1. To ensure heating continuity in your *Mapeheat Mat*: Acquire a digital ohmmeter or multimeter with alligator clips or an equivalent testing device. Set the meter to the lowest setting. Place one of the meter probes on the copper wire in the white lead and the other probe on the copper wire in the black lead.

2. Confirm that your ohm reading is within -10% or +5% of the factory reading listed on the tag of *Mapeheat Mat*.
3. Record the reading in the Resistance Testing Log.

Note: *Mapeheat Mat* must be tested before, during and after installation to validate the warranty.

## HOW TO REPAIR THE MAT WIRE

---

1. Determine the location of the damaged wire.
2. Using a sharp blade, cut the fabric alongside the wire approximately 8" (20 cm) on either side of the point of damage. Cut close to the wire, being careful not to nick or cut it.
3. Gently pull the wire away from the fabric.
4. Cut the wire at the damaged section.
5. Take the long solder sleeves from the repair kit and place one on each open end of the mat's resistance wire.
6. Take the hollow piece of braiding from the repair kit and slip it over one of the ends of resistance wire from the mat.  
Note: Bunch the braid between your fingers while it is still on the packaged lead wire to make it easier to feed the resistance wire through it. Then discard the lead wire inside.
7. Cut 2" (5 cm) from each end of the damaged wire, leaving a space of about 4" (10 cm).
8. Push back the tined copper braiding from the resistance wire on the mat to expose approximately 3" (7.5 cm) of insulated resistance wire.  
Tip: If needed, heat up the wire to loosen glue on the braid.
9. Very carefully strip 1/8" (3 mm) of insulation from each end of the resistance wire.
10. Take the resistance wire from the repair kit and strip 1/8" (3 mm) of insulation from one end.
11. Take one small solder sleeve from the repair kit and place it over the new piece of resistance wire.
12. Overlap 1/8" (3 mm) of bared wire ends of the resistance wire from the damaged mat and the new piece of resistance wire.
13. Carefully slide the solder sleeve over the overlapping ends, ensuring that the solder ring is centered over the overlapping bared ends of the resistance wires. Ensure that the resistance wires are within the solder sleeve seals (the blue and clear bands).  
Note: Keep the metal at least 1" (2.5 cm) away from the solder sleeve during the heating process to prevent a short between the wire and the metal braiding.
14. With the heat gun, heat the solder sleeve until the solder ring melts on the overlapped connection and the plastic tubing is shrunk tight around the insulation protecting the wire.  
Note: Heat the ends of the solder sleeve first to seal in the solder.
15. Cut the loose end to the appropriate length, making sure that the stripped resistance wires overlap. Repeat the same procedure as steps 13 to 15.
16. Pull the bunched steel braiding over the repaired wire connections, making sure the hollow braid contacts the existing braid on both ends. Take the long solder sleeves and place one at each end of the hollow braid wire and heat per Step 15.
17. Place the repaired wire into the mat, fastening it in place with duct tape. The wires cannot overlap: A space of 1" (2.5 cm) must be maintained between the mat wires.
18. After finishing the repair, conduct insulation and resistance tests.

For details, call MAPEI Technical Services at 1-800-992-6273 in the USA or 1-800-361-9309 in Canada.

## ADDITIONAL INFORMATION

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact [sustainability\\_USA@mapei.com](mailto:sustainability_USA@mapei.com) (USA) or [sustainability-durabilite@mapei.com](mailto:sustainability-durabilite@mapei.com) (Canada).

### LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at [www.mapei.com](http://www.mapei.com). **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

## CONTACT INFORMATION

### MAPEI Headquarters of North America

1144 East Newport Center Drive  
Deerfield Beach, Florida 33442  
1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

### Technical Services

U.S. and Puerto Rico:  
Flooring: 1-800-992-6273  
Concrete and heavy construction: 1-888-365-0614  
Canada:  
1-800-361-9309

### Customer Service

1-800-42-MAPEI (1-800-426-2734)

**Edition Date: June 1, 2023 MK 3000363 (22-2617)**

For the most current product data and BEST-BACKED<sup>SM</sup> warranty information,  
visit [www.mapei.com](http://www.mapei.com).

All Rights Reserved. © 2023 MAPEI Corporation.

