



MICRO-SURFACE
FINISHING PRODUCTS INC.

Acrylic Based Solid Surface Repair Kit Instructions

This is a Spot Repair Kit, it is not meant for resurfacing large areas. Large restorals require our discs and a random orbital sander.

Contents: MICRO-MESH Aluminum Oxide 3" x 4" Soft Touch Pads:

300 - white	1500 - peach	12000 - gray
600 - yellow	2400 - lilac	
800 - green	4000 - light blue	

Keep MICRO-MESH clean; contamination can cause scratches. When repair is complete, rinse MICRO-MESH, allow to air dry and return to the original packaging. MICRO-MESH is re-useable!

Part 1 - General Guidelines for the use of Micro-Mesh on Solid Surface Countertops

1. MICRO-MESH can be used wet or dry.
2. Use only 100% flannel for wiping the surface; avoid synthetics and paper towels as these tend to cause scratches.
3. Always work in a straight-line pattern, crossing 90° when you change grits.
4. Complete removal of damage is necessary to obtain the best finish.
5. Remember to match the finish of the reworked area to the rest of the countertop. (e.g. matte, satin, gloss)
6. The severity of the original damage will determine your starting point. All of the original damage must be removed in the first step. Make certain to wipe away any sanding debris prior to continuing on with the next step to avoid contamination scratches. Also check the scratch pattern left to make certain the sanding pattern is consistent.
7. Each additional step should be used for approximately 1-2 minutes per square foot or until the previous scratch pattern is completely removed. Gloss finishes may require additional time.

Part II - Instructions

1. Determine the extent of the damage. If your counter is satin, gloss or high gloss and only slightly damaged, begin in the higher grades, 600 or 800. If the counter has more severe damage begin with the 300 and work up through the grades.
2. Begin by sanding at a 90° angle across the damage. Sand in a straight-line pattern. Do not sand in a circular motion. Check damage removal every 2-3 minutes. Wipe the surface clean with a soft flannel cloth.

- If damage has been completely removed proceed to the next grade. **IMPORTANT!** Check surface for correct finish, make sure the repair area is blending with the existing surface finish.

Finishing Step Guidelines

Deep Scratch Removal:	300 AO
Matte Finish:	300 AO, 600 AO
Satin Finish:	300 AO, 600 AO, 800 AO, 1500 AO
Gloss Finish:	300 AO, 600 AO, 800 AO, 1500 AO 2400 AO, 4000 AO
High Gloss Finish:	300 AO, 600 AO, 800 AO, 1500 AO 2400 AO, 4000 AO, 12000 AO

Note: Not everyone's idea of a particular finish is the same. Depending on the color and type of solid surface, fewer or more steps may be required in order to achieve the look you want. It is a good idea to check the finish between grades until you become familiar with using Micro-Mesh.

If the finish you desire is not obtained, please contact Micro-Surface Finishing Products Inc. at 800-225-3006 or 563-732-3240 for assistance.

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Countertop Repair Instructions

HOW TO ACHIEVE THE BEST FINISH USING MICRO-MESH® Soft Touch Pads

The polishing of surfaces can be very exacting. Success or failure depends on the technician's knowledge of, and his ability to follow, an established sequence.

Pressure Should be Light. Remember the cushioned abrasive cuts with the abrasive crystal tips. The sharp cutting edges are floating on a resilient matrix. Extreme pressure pushes the tips back into the matrix rendering them ineffective and resulting in surface smearing, burning, and possible orange peel and distortion.

KEEP EVERYTHING YOU USE CLEAN. This includes equipment, sandpapers, MICRO-MESH®, and all wiping materials. A minor scratch here or there is not a crisis situation, but picking up a piece of metal or other contaminate from the top of a work area can be a disaster. Watch where you set things down.

Acceptable Cleaning and Maintenance Materials:

- 100 % cotton flannel
- Genuine chamois, not synthetic or imitation
- Biodegradable liquid detergent
- MICRO-MESH® Anti-Static cream
- MICRO-GLOSS® polish and cleaner
- WinBRIGHT Spray plastic cleaner
- Bug Blaster Spray bug remover

Unacceptable Cleaning and Maintenance Materials:

- Paper towels or other paper products
- Shop towels or synthetic fiber fabrics
- Commercial window cleaners
- Any product containing ammonia or solvents or alcohol

Clean the Work Surface between each step, especially in cracks and crevices. Flush surface several times with clean water to remove dust and dirt before touching it with anything. Clean abraded particles from the work piece by rinsing and then dry and inspect.

Inspect the Work Piece between steps with a bright light to ensure you are removing the previous scratch pattern before continuing on.

Keep the Abrasives Clean. Keeping them clean will improve performance and extend life.

To Avoid Scratching the Surface, do not wear watches, rings, or bracelets. Long fingernails should be covered with gloves.

For Superficial and Light Surface Damage, use MICRO-GLOSS® liquid abrasive following the directions on the label of the bottle.

For Deep Damage and Crazeing, you will be required to remove the damage firstly with sandpaper and then restore the surface to its original state using MICRO-MESH®. After damage is removed by using sandpaper in a succession of steps from coarse to fine, ie: 120 grit, 220 grit, 400 grit wet/dry, then begin the MICRO-MESH® series with MICRO-MESH® 1500 and proceed through the series to 12000 or until the original surface is matched.

Use a Straight-line Crossing Pattern. Do not use a circular pattern except in the final hand buffing or anti-static operations.

Using MICRO-MESH® with Water and a few drops of detergent will generally result in a less effort having to be used and a slightly better finish. Only use enough water to provide lubricity to the surface, but not so much that poor contact is made with the work piece.

DO NOT wear out one of the meshes by trying to make it do too much work on your first step. If your estimated damage is not readily removed, go immediately to the next coarser mesh. Removing the initial damage with the sandpaper series will take up 85% of the restoral time. The MICRO-MESH series and the buffing procedures will take as little as 15% of the time. **DO NOT** skip steps in either the sandpaper or the MICRO-MESH® series.

Work an area slightly larger with each step to blend. Working one small area on a highly curved section could create flat spots or distortion.

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