



# MICRO-SURFACE

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## FINISHING PRODUCTS

### Surface Enhancement

High-quality finishes enhance the performance, life, and appearance of materials and products in virtually every industry. Precision, long-lasting fine abrasives provide cost savings, competitive advantages and desired results to manufacturers, hobbyists, and consumers.

Micro-Surface Finishing Products Inc. has been making these benefits possible for customers for almost thirty years. MICRO-MESH™, our unique "cushioned" abrasive, achieves superior finishes in a wide range of industrial and consumer applications worldwide.

### Innovative Products

Originally intended to restore fine art, MICRO-MESH was quickly adopted as a method to restore optical clarity to damaged aircraft transparencies. Micro-Surface later became recognized internationally with

our finger nail polishing Micro-Buffers. Today, MICRO-MESH sheets, belts, discs, tapes, our premium liquid abrasives and Black Lamb buffing pads have gained wide acceptance in many industries including; automotive, agricultural, medical, electronic, recreation, hobby, and home products. Micro-Surface products are used to reduce steps and improve surfaces on metals, coatings, plastics, woods, and ceramics.

### Satisfied Customers

Our business is solving finishing problems with technical expertise, premium-quality products, and immediate and dependable service. At Micro-Surface, we're committed to making our customers' fine finishing efforts more cost effective and productive.





# MICRO-SURFACE PRODUCTS & SERVICES

## Industrial Finishing

Micro-Mesh Regular and MX grades are used in manual and machine finishing operations for aluminum, brass, steel, titanium, coatings, woods, plastics, and other materials. The unique MICRO-MESH "cushioning" system provides many advantages to fixed-crystal films and papers. Our applications lab assists customers in determining the proper grit sizes to achieve superb finishes in fewer steps, less time and with extended abrasive life.



## What is a "Cushioned" Abrasive?

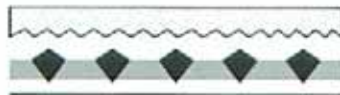
MICRO-MESH is made with a cloth backing, followed by a layer of specialty formulated latex. Then the silicone carbide or aluminum oxide crystals are bonded to the latex with a flexible glue.

## How does Micro-Mesh Work?

When contact pressure is applied the crystals recede and rotate slightly to present their sharp cutting edges evenly across the surface. The abrasive crystals all cut together on the same plane with a positive rake.

## Why is Micro-Mesh Better?

Because the crystals can move back into the cushion, a much larger crystal can be used to achieve a very fine uniform scratch pattern. The larger crystals and the flexible glue bond result in a longer lasting material that resists loading and heat build up. The resulting fewer steps and longer life make Micro-Mesh the economical choice of professionals world wide.



**Cushioned Abrasives:  
MICRO-MESH**

Cushioned abrasives use large abrasive crystals to cut a fine uniform scratch pattern. The spaces between the crystals help keep the material from loading up.



**Fixed Crystal Abrasives:  
"Sandpaper"**

Achieves a similar size scratch pattern using much smaller abrasive grit. The space between crystals loads up quickly and heat is built up on the surface of the part. Uneven crystals produce gouges and random scratches.

## Acrylic Restoral

In 1970, MICRO-MESH revolutionized aircraft cabin window and windshield restoral. Still the method of choice to repair scratched and crazed acrylic surfaces by private pilots, mechanics, and now boat owners, the MICRO-MESH system is popular in manual and mechanical kits. Our restoral professionals travel nationwide to repair pressurized aircraft transparencies in place, or customers can send them to our FAA repair station #KY2R969K at Wilton, Iowa.

