

1. PERSONAL SAFETY & PPE CHECKLIST

- ☐ **NIOSH N95 or P100 Respirator Mask** Mandatory during intermediate and final coat sanding to filter micro-fine mineral dust.
- ☐ **Heavy-Duty Nitrile Gloves (6 mil+)** Protects hands from alkaline wet cementitious paste and liquid acrylic binders.
- ☐ **ANSI Z87.1 Approved Safety Glasses** Shields eyes against airborne dust particles and topcoat sealer splashes.
- ☐ **Heavy-Duty Gel Knee Pads** Recommended for floor, shower base, and hearth troweling projects.
- ☐ **Fresh Air Cross-Ventilation Fan** Maintains continuous airflow during topcoat sealer application and drying.

2. REQUIRED APPLICATION TOOLS

- ☐ **Flexible Stainless Steel Trowel** Rounded corners prevent lines and gouges. Keep blade clean & polished.
- ☐ **Short-Nap Microfiber Roller & Tray** Used for streak-free primer application and uniform polyurethane topcoat sealing.
- ☐ **Random Orbital Sander (120-220 Grit)** Smooths coats between passes and prepares final layer for sealing.
- ☐ **HEPA Shop Vacuum & Microfiber Wipes** Thorough dust extraction is required between coats to guarantee adhesion.
- ☐ **Painter's Masking Tape & Plastic Sheeting** Mask off adjacent walls, cabinets, and fixtures prior to priming.

3. PHASE-BY-PHASE SAFETY PROTOCOL

PHASE 01

Prep & Prime

Wear gloves & glasses. Clean and dry substrate. Repair cracks or loose tile prior to priming.

PHASE 02

Microcement Coats

Wear nitrile gloves. Trowel ultra-thin coats (<1mm). Clean bucket edges to avoid dried grit.

PHASE 03

Sanding & Cleanup

Mandatory N95 mask & goggles! HEPA vacuum all dust. Never dry-sweep dust into room air.

PHASE 04

Sealer Topcoat

Open windows & turn on exhaust fan. Wear gloves. Apply thin, continuous coats without pooling.

4. CORE APPLICATION RULES

- **Never add water:** Premixed microcement is pre-formulated. Adding water ruins resin bond strength.
- **Clean tools frequently:** Rinse trowel blades in clean water before wet paste hardens.
- **Mind room ambient temp:** Ideal work window is 60°F-75°F (15°C-24°C). Avoid harsh draft or hot sun.
- **Respect curing windows:** Light foot traffic in 48 hrs; full mechanical & chemical cure in 7 days.

5. FIRST AID & TECHNICAL SUPPORT

- **Eye Contact:** Flush immediately with clean water for 15 minutes. Consult a physician if needed.
- **Skin Contact:** Wash thoroughly with soap & water. Apply moisturizer if skin feels dry.
- **Inhalation:** If coughing from dust occurs, move immediately into outdoor fresh air.

Full SDS & Technical Video Guides: Visit www.mycrocement.com/safety or contact technical support.