



Microcement Substrate Preparation Checklist

FIELD DOC

PROJECT / AREA _____

SUBSTRATE TYPE

☐ Concrete / Screed ☐ Tile ☐ Drywall / Cement Board ☐ Wood / Plywood

DATE & INSTALLER _____

PHASE 01 JOBSITE ENVIRONMENT

- ☐ **Temperature:** Ambient and surface temperatures between **50°F and 85°F (10°C–29°C)**.
- ☐ **Humidity:** Relative humidity below **70%**. HVAC running or area fully enclosed from drafts and direct sunlight.
- ☐ **Moisture Check:** Concrete moisture content below **4%** (pinless meter) or RH under **75%**.
- ☐ **Lighting:** Raking light (side-lighting) positioned to identify plane inconsistencies and shadows.

PHASE 02 SUBSTRATE INTEGRITY & REPAIRS

- ☐ **Soundness Test:** Tap concrete or tiles with a hammer/screwdriver handle to locate hollow spots. Remove and fill loose sections.
- ☐ **Deflection (Wood Surfaces):** Verify subfloor is at least **3/4" exterior-grade tongue-and-groove plywood** over 16" O.C. joists. Zero flex under load.
- ☐ **Crack Isolation:** V-groove concrete cracks, fill with non-shrinking epoxy/polyurethane patch, and grind flush.
- ☐ **Grout Lines & Transitions:** Fill tile grout lines level using high-strength repair mortar. Tape drywall to a smooth **Level 4/5** finish.
- ☐ **Flatness Check:** Verify floor/wall planarity is within **1/8" variance over 10 feet**. Grind high spots; skim low spots.

PHASE 03 CLEANING & DECONTAMINATION

- ☐ **Degrease:** Scrape away wax, paint overspray, or oil residue. Clean thoroughly with TSP or heavy-duty degreaser and rinse clean.
- ☐ **Mechanical Abrasion:** Sand glossy tile, painted surfaces, or sealed concrete with a **36–60 grit diamond pad** to create an anchor profile.
- ☐ **Dust Extraction:** Vacuum entire area twice with a HEPA vacuum. Do not sweep with brooms or damp-mop immediately before priming.

PHASE 04 PRIMING & FIBERGLASS MESH INTEGRATION

- ☐ **Select Primer:**
 - ☐ **Non-Porous** (Tile, Glass, Painted surfaces): Quartz-grit bonding primer.
 - ☐ **Porous** (Concrete, Screed, Drywall): Deep-penetrating acrylic primer.
- ☐ **Application:** Roll primer evenly; avoid pooling in low spots or leaving dry patches.
- ☐ **Reinforcement Mesh:** Embed alkali-resistant fiberglass mesh into the wet base coat/primer over all joints, tile seams, and repaired cracks.

PHASE 05 PRE-APPLICATION SIGN-OFF

- ☐ Primer/repair patch is **100% cured**, tack-free, and dust-free.
- ☐ Masking tape applied to all adjacent walls, drains, trim, and fixtures.
- ☐ Substrate has zero movement, zero loose debris, and full surface profile adhesion.

INSTALLER SIGNATURE / DATE _____

SUPERVISOR SIGN-OFF / DATE _____