



METHOD STATEMENT FOR GRANITE FLOOR GRINDING AND POLISHING WORKS

1. Purpose

This method statement describes the procedure for grinding, polishing, crystallization, and final gloss enhancement of granite flooring to achieve a high-quality, mirror-like finish.

2. Scope of Work

The scope includes surface preparation, grinding, polishing, crystallization treatment, and application of gloss enhancer on granite floor surfaces.

3. Materials and Equipment

Materials

- Steel Grinding Grits (0, 1)
- Resin Bond Diamond Pads (30, 50, 100, 200, 400, 800, 1500, 3000)
- KG Polishing Powder
- Crystal Blue Liquid
- Universal Glossy Liquid
- Stone Shampoo
- Clean Water

Equipment

- Heavy-Duty Floor Grinding Machine
- Single Disc Polishing Machine
- 3M Red Pad
- 3M White Pad
- Wet Vacuum Cleaner
- Water Supply Equipment
- Cleaning Tools



4. Execution Procedure

4.1 Surface Preparation

- Inspect the granite floor and identify uneven areas, lippage, scratches, stains, and damages.
- Remove dust, debris, and contaminants from the surface before commencing work.

4.2 Grinding Process

Initial Grinding and Levelling

- Perform grinding using Steel Grit 0 followed by Steel Grit 1 to level the granite surface and remove lippage.
- Ensure a uniform and flat surface is achieved throughout the area.

Scratch Removal Grinding

- Remove scratches created by steel grinding using the following sequence of resin grits:
 - Resin Grit 30
 - Resin Grit 50
 - Resin Grit 100
 - Resin Grit 200
- Thoroughly clean the floor between each grit change to avoid contamination.

4.3 Polishing Process

- Continue polishing using the following resin grits:
 - Resin Grit 400
 - Resin Grit 800
- Ensure the surface develops a consistent sheen and clarity.



4.4 High Gloss Finishing

- For premium mirror-finish polishing, proceed with:
 - Resin Grit 1500
 - Resin Grit 3000
- Inspect the floor after each stage to ensure uniform gloss and scratch-free finish.

4.5 Crystallization Treatment

KG Powder Application

- Apply KG Polishing Powder using a floor polishing machine fitted with a 3M Red Pad.
- Work systematically in sections of approximately 1 m² (1 m × 1 m).
- Continue polishing until the desired shine is achieved.

4.6 Cleaning

- Thoroughly rinse the floor with clean water.
- Clean the entire surface using Stone Shampoo to remove residue and polishing compounds.

4.7 Crystal Blue Application

- Apply Crystal Blue Liquid using a polishing machine fitted with a 3M White Pad.
- Treat the surface in sections of approximately 1 m² (1 m × 1 m).
- Ensure even application across the entire floor area.

4.8 Final Gloss Enhancement

- Apply Universal Glossy Liquid as the final topcoat using a 3M White Pad.
- Work in sections of approximately 1 m² (1 m × 1 m).
- Buff the surface thoroughly to achieve maximum gloss and protection.



5. Quality Control

- Verify that all grinding scratches are removed before progressing to finer grits.
- Ensure uniform gloss and reflection across the entire floor.
- Check for any visible swirl marks, haze, or uneven polishing.
- Conduct final inspection and obtain approval before handover.

6. Safety Requirements

- Wear appropriate Personal Protective Equipment (PPE), including safety shoes, gloves, goggles, and dust masks.
- Ensure electrical equipment is properly grounded.
- Maintain a clean and safe working environment throughout the process.
- Display warning signs and restrict access to work areas during polishing operations.

7. Completion

Upon completion, the granite floor shall exhibit a smooth, scratch-free, high-gloss finish with enhanced durability and appearance.