
Restoration, Crystallization & Polishing

MAINTENANCE HANDBOOK · HSST KNOWLEDGE LIBRARY

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Intended readers: maintenance firms / property

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Choosing Between the Three Processes

Restoration (re-grinding): deep surface damage, large-area gloss loss, renovation projects — redo from coarse to fine grit.

Crystallization: routine care where the mirror finish is basically intact and gloss/density need boosting.

Local polishing repair: point treatment of local scratches and spot damage.

Standard Restoration Sequence (Eight Steps)

Protect surroundings → coarse grind (50#) to flatten → medium (150#/300#) → fine (500#/1000#) → extra-fine (2000#/3000#) → polish → apply sealer → final acceptance. Never skip grits; wash and inspect at each stage.

Crystallization Key Points

Machine-polish with steel wool and crystallizer to target gloss (commercial spaces generally ≥ 85 gloss units); marble crystallizes well, granite relies mainly on polishing compounds. Frequency follows traffic: shopping malls every 2–3 months, offices every 3–6 months.

Quality Acceptance

Gloss-meter spot checks; 2 m straightedge flatness; no grit-head or transition marks; no detectable step at edges and terminations by hand. Keep work records for period-over-period comparison.