
Stone Sealer Selection & Application

MAINTENANCE HANDBOOK · HSST KNOWLEDGE LIBRARY

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Intended readers: contractors / maintenance firms

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Three Main Sealer Types

Fluoro-penetrating: balanced weathering and stain protection — first choice for outdoors and commercial spaces.

Silane / siloxane: deep penetration, breathable — suits porous varieties such as limestone and sandstone.

Film-forming (wax / coating): instant effect but requires periodic stripping; only for low-traffic or temporary protection.

Five Selection Questions

① What is the variety's water absorption? ② Where is it used (wet zone / grease / outdoor UV)? ③ Must the surface stay breathable (to prevent efflorescence)? ④ Applicator skill level and maintenance cycle? ⑤ Environmental and VOC limits (GREENGUARD etc.)?

Application Procedure

Clean and dry (moisture $\leq 5\%$) → pre-coat joints and edges → even first coat by spray / roller → dwell per product data → second coat at 90° → wipe off residue → cure 24–48 h → water-bead acceptance test.

Acceptance and Re-checks

Acceptance: water beads with a visible contact angle; no colour change (or the agreed enhanced tone). Thereafter spot-check hydrophobic performance quarterly and re-treat as needed.

Frequent Application Errors

Applying on damp slabs; over-application causing film patches; ignoring six-face protection (especially for wet-glue fixing); grouting before the sealer has cured. HSST provides sealer selection and on-site application supervision.