

Architectural Specification (Construction-Set-Ready) SealGreen Kennel Concrete Sealer Concentrate

Updated 4/30/2026

SECTION 03 35 43 – POLISHED, HARD TROWEL, BROOM FINISH AND HARDENED CONCRETE FINISHING (PENETRATING SEALER FOR KENNEL AREAS)

Note: Coordinate final section number and placement with Project Manual. This specification is written as a stand-alone section for a penetrating, water-based silicate sealer applied to concrete in kennel and wash-down areas.

SECTIONS:

PART 1 – GENERAL

PART 2 – PRODUCTS

PART 3 - EXECUTION

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes: surface preparation and application of penetrating, chemically reactive water-based kennel concrete sealer for interior or exterior concrete slabs in animal housing/kennel areas, including corridors, runs, and wash-down locations indicated.

B. Related Sections (coordinate): cast-in-place concrete; concrete floor drains/trench drains; joint sealants; concrete curing and finishing; cleaning and protection.

1.2 REFERENCES

ASTMD 2939: Resistance to water solubility	ASTMC-156: Water retention
ASTMD 466: Resistance to water flow and action. No re-emulsification.	ASTM C309-98a: Moisture loss, Liquid Membrane-Forming Compounds for Curing Concrete (coordinate if used as cure-and-seal).
ASTME 96: Water vapor transmission, ASTM E96/E96M Water Vapor Transmission of Materials.	ASTM C115-00: Moisture loss

B. Comply with applicable federal, state, and local VOC regulations.	
ASTMC 836: Film thickness on a vertical scale	ASTM Sealing Resistance: No Scaling
ASTMC672: Freeze/thaw cycle – 100-day cycle	SS-W-110C: Water repellence on masonry

1.3 SUBMITTALS

- A. Product Data: manufacturer’s technical data sheet for SealGreen Kennel Concrete Sealer Concentrate, including coverage rates, dilution/mixing instructions, limitations, and application requirements.
- B. Safety Data Sheets (SDS): for sealer and any cleaning/prep products used.
- C. Application Instructions: written procedures for surface preparation, masking/protection, dilution ratio, application method, and cure time prior to exposure to water and animal use.
- D. Samples/Mockups: provide field-applied mockup area not less than 100 sq ft in a representative kennel location, showing final appearance and water repellency; obtain Architect/Owner acceptance prior to full application.
- E. Qualification Data: installer qualifications as specified.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: firm experienced in application of penetrating concrete sealers on animal-care or wash-down concrete slabs; provide minimum of 3 completed projects of similar scope within past 5 years.
- B. Preinstallation Conference: conduct meeting at project site prior to start; include Contractor, installer, Architect, Owner’s representative, and concrete subcontractor to coordinate curing, finishing, jointing, cleaning, and protection.
- C. Mockup: approved mockup may be incorporated into Work if undisturbed.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in original, unopened containers with labels intact and legible.
- B. Store materials in accordance with manufacturer’s written instructions; protect from freezing; keep at temperatures recommended by manufacturer.
- C. Protect adjacent materials from overspray and runoff.

1.6 PROJECT CONDITIONS

A. Environmental Requirements: apply only when ambient and substrate temperatures are within manufacturer's recommended range (product data indicates 35°F to 90°F). Do not apply to frozen substrates or when freezing temperatures are expected before curing.

B. Substrate Conditions: surfaces shall be dry, clean, and sound; do not apply over existing coatings, curing compounds, waxes, sealers, or contaminants that could inhibit penetration, unless removed and verified by testing.

C. Protection: protect glass, aluminum, ceramics, and glazed tile; avoid contact with polished/glazed surfaces.

1.7 WARRANTY

A. Manufacturer's Warranty: provide manufacturer's standard written warranty for product, if offered.

B. Installer Warranty: warrant workmanship for a period of not less than 1 year from Date of Substantial Completion.

Note: Long-term performance depends on substrate condition, cleaning protocols, and exposure; coordinate owner maintenance procedures.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Basis-of-Design Product: SealGreen – Concrete Sealer Concentrate (Kennel).

B. Distributor/Contact: ReUse Concrete Sealing Specialists, LLC, 16072 Foster St., Overland Park, KS 66085; 913-681-3451; 800-997-3873 (per product data in this document).

C. Substitutions: in accordance with Division 01 requirements. Proposed substitutions shall demonstrate equivalency for: water/urine repellency, breathability/vapor transmission, VOC compliance, and suitability for kennel wash-down conditions.

2.2 MATERIALS

A. Penetrating Sealer: water-based potassium silicate solution, concentrate form, VOC < 50 g/L; penetrating, breathable, non-film-forming, non-yellowing, intended to reduce water absorption and resist urine intrusion on concrete surfaces; as manufactured by SealGreen and identified as "SealGreen – Concrete Sealer Concentrate."

B. Mixing/Dilution: dilute concentrate with clean potable water to achieve not less than 8% solids in final mixed product, or as otherwise required by manufacturer's current written instructions for kennel concrete applications. Follow manufacturer's published mixing chart for container size provided.

C. Accessories: masking materials, protection sheeting, and application equipment (low-pressure pump sprayer or other method recommended by manufacturer).

D. Cleaners for Surface Preparation (if required): as recommended by sealer manufacturer and compatible with the substrate (SealGreen Kennel Cleaner); do not leave residue that impedes sealer penetration.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify concrete has achieved required finish and cure, and is free of curing compounds, laitance, efflorescence, form release, grease/oil, animal waste residue, and other contaminants that could inhibit penetration.

B. Verify joints are installed and cured as required, and drains/trench drains are operational for wash-down areas.

C. Proceed only when conditions are suitable for application; notify Architect of unsatisfactory conditions.

3.2 SURFACE PREPARATION

A. Protect adjacent surfaces not scheduled to receive sealer.

B. Clean concrete to remove dust, dirt, construction debris, and contaminants. Use methods that open the pores without polishing/closing the surface; do not use acid cleaning unless specifically approved by manufacturer and fully neutralized/rinsed.

C. Allow surfaces to dry prior to application. Do not apply if moisture is present on surface or if slab is saturated.

3.3 APPLICATION

A. Mix and apply in strict accordance with manufacturer's current written instructions and published coverage rates.

B. Apply uniformly to achieve full saturation without puddling. Work sealer into surface as recommended; maintain wet edge and avoid lap marks.

C. Coverage: follow manufacturer guidance; product data in this document indicates typical concrete coverage of approximately 125–175 sq ft per gallon (mixed product), subject to slab porosity and finishing method.

D. Remove excess material from surface before drying, if required by manufacturer, to avoid residue.

E. Curing/Return to Service: allow to cure per manufacturer's instructions prior to wash-down, cleaning, and animal occupancy.

3.4 FIELD QUALITY CONTROL

- A. Perform water-repellency testing at mockup and random areas after cure (water bead/sheet behavior) in presence of Architect/Owner's representative.
- B. If areas do not perform as indicated, clean and reapply or remediate per manufacturer's recommendations.

3.5 CLEANING AND PROTECTION

- A. Cleanup: clean equipment and overspray with soap and warm water (per product data in this document).
- B. Protect treated surfaces from construction traffic, staining, standing water, and cleaning chemicals until fully cured.
- C. Provide Owner with manufacturer's recommended cleaning/maintenance guidance for kennel operations.

END OF SECTION 03