



Product Data Sheet & Application Guide

LELITE REPELLANT

Colorless, Natural Appearance, Water Repellant
Solvent-based Silicone Penetrating Sealer for
Vertical Masonry Surfaces

LELITE-PDS-040422

DESCRIPTION:

Smith's LELITE REPELLANT is a colorless, non-staining penetrating silicone water repellent sealer in an exempt solvent consisting of highly effective & super-durable silicone resins intended for sealing vertical masonry surfaces. A single application provides complete water repellency when applied to porous mineral-based substrates. It penetrates into the pores, leaving no visible film & causes no perceptible change in color nor appearance. It does not seal the pores & capillaries, thus allowing the surface to breathe (moisture vapor permeability). Weathering tests indicate an effective life of six years or more.

HIGHLIGHTS:

- Good depth penetration
- High alkaline resistance
- Superior performance
- Tack-free drying
- Fast development of water repellency
- Can be applied to slightly damp substrates
- Low VOC's
- Water Repellant – Excellent beading for improved aesthetics

RECOMMENDED SUBSTRATES:

- Brickwork
- Mineral-based Natural Stone (*EXCLUDING LIMESTONE)
- Artificial Stone
- Sand-lime brickwork
- Cement Fiberboards
- Concrete (All types)
- Stucco
- Mineral Plaster

**NOT INTENDED for use over smooth, dense or previously sealed / painted surfaces*

STORAGE:

Indoors between 40°F (4.4°C) to 100°F (37.7°C)

SUBSTRATE SURFACE TEMPERATURE:

15°F (-9.4°C) to 100°F (37.7°C) with up 80% Humidity

SHELF LIFE:

1 year in Original, Unopened Container
30 days once opened

COLOR:

Clear only; Natural appearance once dry

UNIT SIZES:

D-040-128	1 gallon jug
D-040-640	5 gallon pail

CURE TIMES (@ 50% Relative Humidity):

**Temperature & humidity affect cure rate*

	72°F
Dry to Touch	1 to 2 hours

CURED COATING PROPERTIES (DRY FILM):

PROPERTY	TEST METHOD	RESULTS
Color (liquid)		Clear
Weight per gallon		9 lbs
VOC's	ASTM D3960	2.9 g/L

APPROXIMATE COVERAGE (DRY FILM):

Varies depending on application method, profile & substrate absorbency.
75 to 150 square feet per gallon

LIMITATIONS:

- AVOID PUDDLING during application – use a soft bristle nylon push broom to work into surrounding areas
- NOT RECOMMENDED OVER DENSE / SMOOTH SURFACES to included polished surfaces, densified concrete, burnished concrete, etc.
- DO NOT APPLY over previously sealed / painted / coated substrates
- NOT FOR USE with topical concrete stains nor Polymer Modified Cement-based products
- NOT RECOMMENDED to seal Limestone
- DO NOT APPLY to damp, frozen substrates

NECESSARY TOOLS and EQUIPMENT:

- Sprayer
- Painters Tape or Stucco Tape for masking
- Plastic drop cloth
- Exploded tip, soft bristle Nylon Push Broom
- Cleaning Solvent (Use Mineral Spirits while wet to clean tools)

INSPECT THE SUBSTRATE: Ensure the substrate is structurally sound and solid as well as free of any contaminants that may inhibit penetration, such as oil, paint, densifier / sealers, curing compounds, wax, etc.

TEMPERATURE & HUMIDITY: Substrate temperature materials must be maintained between 45°F (7.2°C) to 100°F (37.7°C) with less than 80% Humidity during application. Substrate surface temperature must remain above 15°F (-9.4°C) for at least 12 hours after installation. *Do not install when the Dew point is within 5° of the temperature.*

CHECK FOR MOISTURE: Exterior concrete must be visibly dry at time of sealing. No water exposure for a minimum of 8 hours at 72°F (22.2°C) or 16 hours at 45°F (7.2°C).

NEW CONCRETE: Ensure the bleed water (i.e. water of convenience) has escaped new concrete surfaces and has cured for a minimum of 28 days to achieve the intended design strength prior to cleaning.

SUBSTRATE CONTAMINANTS: Determine if a potential contaminant exists (oils, chemical from spills, etc.) & a proper course of remediation. Follow local regulations regarding contaminant & waste disposal.



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OIL CONTAMINATION: Use [Smith's Oil Clean](#) to remove oils from the surface of the concrete prior to traditional substrate preparation stated below.

SUBSTRATE PREPARATION: Surface preparation should be viewed as the most important step in a successful application. Proper substrate preparation results in the product's longevity, minimizes potential failures and creates the best environment for installation. In short, the more detail and time allotted to this phase of the project will dramatically affect appearance and durability of the finished project.

CRACKS & REPAIRS: Surface defects larger than a hairline crack should be filled appropriately prior to sealing.

CONCRETE PREPARATION:

- 1) Remove paint, adhesives & loose particles from intended application surface
- 2) Liberally apply [Smith's Green Clean Pro](#) to a 20 ft. by 20 ft. section of the substrate or smaller with a pump-up sprayer or dip and roll method with a ½ inch nap roller cover
 - a) Wet the intended treatment area with water in hot weather application or direct sun exposure
- 3) Allow [Smith's Green Clean Pro](#) to dwell on the substrate for 20 to 30 minutes occasionally agitating with a deck brush or a nylon brush attached to a low-speed orbital floor buffer
 - a) Do NOT Allow [Smith's Green Clean Pro](#) to dry on the substrate
 - b) Mist water via hose or pump-up spray to keep treated area from drying
- 4) Pressure Wash to rinse utilizing 12,000 work units* pressure washer in conjunction with a Zero (0) degree rotating nozzle tip to remove the [Smith's Green Clean Pro](#) with overlapping line patterns
- 5) Allow surface to dry
- 6) Perform a "Tape Test"

* Work Units = Gallons per Minute x PSI

Note: If additional profile is desired, reapply [Smith's Green Clean Pro](#) following the previous directions.

TAPE TEST: After the substrate has thoroughly scrubbed, rinsed and allowed to dry; apply several 12 to 18 inch long strips of a high quality 2 inch wide clear packaging tape or clear "Gorilla Tape" to various locations on the intended application substrate to determine the cleaning process effectiveness. Aggressively press the tape onto the substrate using the palm of your hand ensuring a vast majority of the air has been removed from beneath the tape. Fold one end of the tape into itself then vigorously pull up on the tape to remove from the substrate. Examine the adhesive side using a bright light to inspect for residue and particulate. Little to no dust or foreign particles should be visible. Areas with visible foreign particulate will need to be rinsed again until the surface is free of contaminants.

STONE & PAVER SUBSTRATES: Surface must be dry and free of dust, dirt, efflorescence, oil, grease, sealers / curing compounds / coatings, etc. which may inhibit penetration of Smith's LELITE Repellant.

Always perform a test area on the intended substrate to product viability and appearance prior to proceeding with the project.

APPLICATION: Smith's LELITE Repellant may be spray applied using an HVLP, pump up or airless sprayer. A brush or roller may be used for cutting in the perimeter, edges and hard to reach areas.



Spray apply Smith's LELITE Repellant as a fine mist evenly over the intended surface and allow to soak into the surface WITHOUT PUDDLING THE SEALER. Use a clean, soft bristle exploded tip nylon push broom to work any puddles into the surface of the surrounding area. Only apply enough sealer to dampen the surface. Once the substrate returns to its original color, light foot traffic may resume.

NOTE: DO NOT EXPOSE TO WATER FOR MINIMUM OF 8 HOURS AFTER INITIAL APPLICATION

COVERAGE: Smith's LELITE Repellant may be applied between 100 to 150 sq.ft. per gallon per coat depending on the texture, application method and absorbency of the substrate.

RECOATING: Two coats are recommended to ensure full saturation and proper water repellency. A "wet on wet" application of Smith's LELITE Repellant allowing the first coat to saturate into the substrate for up to 1 hour, depending temperature and conditions at the time of applications.

WATER REPELLENCY: Optimal curing condition is 73°F with 50% Ambient Humidity and airflow. Maximum water repellency is achieved within 72 hours under these conditions. Beading generally improves with additional cure time.

CLEAN UP: Clean tools and equipment with mineral spirits. Once Smith's Water Shield has dried, it may be removed from tools and equipment using Acetone, Xylene, Toluene or MEK.

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