

NeverStrip®
FLOOR COATINGS
21st Century Floor Care Technology™

NeverStrip Shield Primer



NeverStrip Shield Primer

Deep Penetrating Concrete Primer & Internal Protection System

NeverStrip Shield Primer is a one-time, deep penetrating treatment designed to densify, strengthen, and protect concrete from within. Acting as both a standalone internal protection system and a preparatory primer, it reduces water intrusion, chemical degradation, and biological attack while improving overall durability and abrasion resistance.

Formulated with a proprietary blend of catalyzed silicates, Shield Primer penetrates deep into new and existing concrete, reacting within the substrate to seal pores and become a permanent part of the internal concrete matrix. This internal transformation enhances long-term performance without forming a surface film.

PFAS-free and environmentally responsible, NeverStrip Shield Primer supports safer application and long-term use across a wide range of environments, including those requiring higher environmental standards.

Why It Matters

Concrete deterioration begins below the surface. Moisture, chlorides, and contaminants move through the pore structure, leading to degradation of both the concrete and reinforcing steel.

NeverStrip Shield Primer addresses this at the source by reducing internal porosity, strengthening the concrete matrix, and limiting moisture and contaminant intrusion.

System Approach

Step 1 – Shield Primer (Internal Protection)

Penetrates and strengthens the concrete from within

Reduces porosity and limits moisture intrusion at the source.

Step 2 – NeverStrip Shield (Surface Protection)

Provides a thin, durable layer with stain resistance and easy cleanability
Delivers abrasion resistance while improving surface performance and long-term maintenance.

Key Benefits

- Deep penetration into the concrete substrate (approximately 1.5" to 3")
- Permanent internal densification
- Reduces water intrusion from both positive and negative sides
- Improves resistance to chlorides, sulfates, and de-icing salts
- Enhances freeze and thaw durability
- Improves abrasion resistance
- Breathable system allowing vapor transmission
- Compatible with coatings and overlays
- Zero VOC, odorless, non-toxic
- Suitable for use in contact with drinking water

Typical Applications

- Interior and exterior concrete floors
- Basements and slabs with moisture concerns
- Parking structures and high-traffic surfaces
- Agricultural and industrial facility floors
- Precast concrete components
- Bridges, roadways, and tunnels
- Structural concrete elements
- Water treatment plants and storage tanks
- Underground and submerged structures

Application Overview

Review the Safety Data Sheet (SDS) and application guidelines prior to use. Apply to clean, structurally sound concrete free of sealers, curing compounds, oils, grease, and contaminants. Product is not effective on previously sealed concrete. Apply in two coats, allowing the first coat to visually dry before applying the second. Apply using low-pressure sprayer, roller, or brush. Spray application is preferred (maximum 72 psi / 5 bar). Stir product thoroughly before use. Do not allow product to pool. If pooling occurs, re-distribute using a clean broom. For concrete cast in formworks, apply after release agents have been removed. On older concrete, wet the surface the day before application. May also be used as a curing treatment on new concrete.

Application – Vertical Surfaces

Apply from the bottom upward. Apply first coat to saturation and brush out any drips or runs to ensure an even coat. Apply the second coat after the first coat has visually dried. Surface is typically ready after approximately 8 hours under normal conditions, with full cure achieved in approximately 8 days. Non-hydrophobic coatings may be applied after a few hours. For coatings requiring a completely dry substrate, allow 2–3 weeks.

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Application – Underground Structures

Repair all panel holes, voids, and gravel nests prior to treatment. Apply Shield Primer to the surface prior to repairs if required.

Reapply after repairs are complete and dry. Treated surfaces may be covered with soil after approximately 12 hours. Sequence:

- 1) Apply Shield Primer, 2) Complete repairs, 3) Reapply once dry.

Application – Concrete Slabs, Roadways & Structural Surfaces

Can be applied to both new and existing concrete. Existing concrete should be pressure washed prior to application and may be damp but not water-saturated.

For new concrete, remove any curing compounds or sealers prior to application.

May be used as a curing agent when applied after finishing while the surface is still wet.

Coverage

160–220 sq. ft. per gallon per coat. Apply to saturation without pooling. Coverage varies by surface condition.

Important Notes

Do not apply below 40°F or above 104°F. Do not apply if rain is expected within 24 hours. Protect glass and aluminum surfaces during application.

Professional Use Only

Always review the Safety Data Sheet (SDS) prior to use.



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Certification



Via Galileo Galilei 47, 36030 Costabissara (VI)

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Certificate no GB08/76012

DOP no 140107DOP-1504-2

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Tests in accordance with ASTM (American Society for Testing and Materials International)

Waterproofing & Concrete Protection Product Tests

ASTM C1202	Rapid Chloride Ion Penetrability: 448 C (< 61%*)
ASTM E96	Water Vapor Transmission: < 26%*
ASTM C1585	Rate of absorption: < 52%*
ASTM C666-A	Freeze/Thaw Durability: 94% relative dynamic modulus through 303 cycles with 1-coat
ASTM C779-C	Abrasion Resistance Improvement: > 30%
ASTM E303	Skid Resistance: Negligible difference wet & dry between treated and untreated
ASTM C1543	15% NaCl Solution Absorption ¹⁾ : < 59%* 15% NaCl Solution Vapor Transmission < 26%*
ASTM 156	Water retention Comparable results with membrane curing compounds.

1) Dry weight variation after immersion for 1, 3, 7, 14, 21 days.

* Compared with the unsealed sample

Tests in accordance with MTO (Ontario Ministry of Transportation)

MTO LS-412	Salt Scaling Resistance: 0.123 kg/m ² (std < 0.8 kg/m ²)
MTO LS-417	Chloride Content: 0.231% by mass (< 16%*)

Tests in accordance with Army Corps of Engineers

CRD C48-92	Water Permeability of Concrete: 0.0 cm ³ , depth 1-inch @ 200 psi after 10-days.
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UNI EN 1504-2:2005

Products for the concrete protection on buildings and works of civil engineering

EN 13892	Abrasion resistance: improvement > 30%
EN 1062-3	Capillary absorption and water permeability: w < 0.1 kg/m ² x h _{0,5}
EN 13529	Chemical resistance (astringent attack): no visible defects
EN 13687-1	Thermal compatibility: ≥ 1.5 N/mm ²
EN ISO 6272-1	Falling-weight test: Classes III: ≥ 20 Nm
EN 1542	Bond strength by pull-off: ≥ 1.5 N/mm ²
EN 13501-1	Reaction to fire tests: Euro class A1 Slip/skid resistance: NA Depth of penetration: > 10 mm Dangerous substances: absent

The above technical data has been obtained with a dosage of 400 g/m²

Performance

Properties	Result	Reference Standard
Carbonization	Total resistance	UNI 9944
Contact with drinking water	Suitable	D.M. 21.03.73
Resistance to negative pressure	1MPa – ca 14 atm	Sintef
Freeze-thaw cycles resistance	No visible damages after 300 cycles	UNI 7087/72