Shield Pro 5100 EX

Field Application Guide

Exterior Penetrating Water Repellent

for Concrete, Masonry, Brick, Render & Natural Stone

REPELS RAIN & WATER | BREATHABLE FINISH | DURABLE PROTECTION

PRODUCT OVERVIEW

Shield Pro 5100 EX is a ready-to-use, water-based penetrating water repellent for exterior porous construction materials. The active silane-siloxane technology impregnates the substrate and bonds chemically to form a deep, durable water-repellent zone — reducing rain penetration and capillary water absorption while leaving the natural appearance unchanged. Because it penetrates instead of forming a film, the surface stays breathable.

CRITICAL RULE: This is a penetrating treatment — do NOT wipe off. Apply to a clean, dry surface, let it absorb and cure, and do not apply if rain is expected before the surface has cured.

BEFORE YOU BEGIN

- Read the Safety Data Sheet (SDS) before use.
- Use as supplied — **do not dilute**.
- Apply only to clean, sound, dry substrates. Remove dirt, dust, efflorescence, old coatings and sealers first.
- Do not apply over standing water, damp/frozen surfaces, in hot direct sun, or if rain is forecast before curing.
- Mask and protect glass, metal, vegetation and adjacent surfaces. Always test each substrate first.

SUITABLE SURFACES

Vertical & horizontal exterior masonry — concrete, brick, block, render/stucco and natural stone.



Apply by: brush, roller or low-pressure sprayer

APPLICATION STEPS

Apply generously to full saturation — then let it penetrate and cure. Do not wipe off.



1 Clean the Surface
Remove dirt, dust, efflorescence and loose material from the masonry. The surface must be clean, sound and dry.



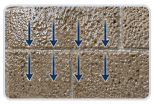
2 Apply by Brush
Flood-coat the surface with a masonry brush, working a wet, even film into the substrate.



3 or Apply by Roller
On large areas, apply generously with a roller. Work from the bottom upward on walls to control run-down.



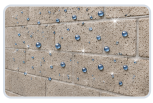
4 or Apply by Sprayer
A low-pressure sprayer can be used for fast, uniform coverage. Apply to full saturation.



5 Let It Penetrate
Allow the product to soak into the substrate and react. Do NOT wipe off — it is meant to be absorbed.

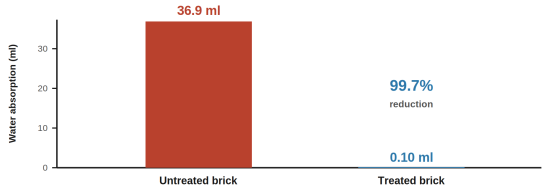


6 Allow to Cure
Protect from rain and water until cured. Keep the treated surface dry while it sets.



7 Water Repelled
Once cured, rain and surface water bead and run off. Full repellency develops progressively.

PERFORMANCE (INDEPENDENT TEST)



WHY IT WORKS

- Wind-driven rain penetration reduced **88.7%** (ASTM E514).
- Wind-driven rain leakage reduced **100%** (ASTM E514).
- Brick water absorption cut from **36.9 ml to 0.10 ml**.
- Breathable — does not trap moisture in the wall.
- Invisible finish — no change to surface appearance.

CURING & LIMITATIONS

- Protect from rain/water until cured; keep dry after application.
- Repellency develops progressively after curing.
- Does not resist water under constant hydrostatic pressure.
- Not a crack-bridging or waterproofing membrane.

STORAGE & SAFETY

- Store 0–30°C (32–86°F) in original sealed container; protect from freezing.
- Shelf life 18 months, unopened.
- For professional use. Wear gloves and eye protection.
- Do not discharge into drains or waterways.

QUICK FIELD CHECKLIST

- ☐ Surface clean, sound and dry
- ☐ Contaminants & old coatings removed
- ☐ Adjacent areas masked & protected
- ☐ No rain forecast before curing
- ☐ Used as supplied (not diluted)
- ☐ Applied to full saturation
- ☐ Not wiped off — left to penetrate
- ☐ Test area completed first