

# TRANSIL® 244(+)

## Densifying Waterproofer and Chloride Ion Barrier

### DESCRIPTION

Transil® 244(+) is a premium Nano-Lithium® hardener, densifier and hydrophobic sealer ideal for protecting concrete and masonry surfaces against damage from freeze-thaw cycles, moisture, and chloride ion intrusion.

Transil® 244(+) combines the benefits of Nano-Lithium® densification with reactive silicone chemistry to meet the NCHRP 244 standard for chloride protection of concrete in a single application. The reactive treatment reduces permeability and helps prevent efflorescence and spalling. When applied to concrete, it penetrates and reacts with calcium hydroxide to form insoluble calcium silicate hydrate, making the treated concrete more water, stain, and abrasion resistant for easier maintenance and longer life. Transil® 244(+) is a single application product and does not require subsequent applications to maintain performance.

### APPLICATIONS

Transil® 244(+) is designed to prolong the life of concrete by sealing cracks against moisture and chloride ion intrusion. Specific applications include:

- Bridge decks
- Parking decks
- Concrete floors
- Roadways
- Airport runways/taxiways
- Columns & beams in splash zones
- Consolidation of porous & dusting surfaces

### KEY BENEFITS

- One time treatment, no need to reapply
- Protects against salt and freeze/thaw damage
- Hardens, densifies and dust-proofs
- Easy-to-use, low odor, no rinsing required
- Defense against water and deicing chemicals
- Not susceptible to UV damage
- Breathable--allows moisture to escape without damage to the surface
- Penetrates--no film to lift or peel off
- Reduces efflorescence and surface sweating
- Does not contribute to surface ASR or promote crazing
- VOC compliant, may contribute to LEED points (IEQ credit)

### USES

Exposed concrete exposed to moisture and/or deicing chemicals- Bridge Decks, barrier walls, bridge railings, wing walls, approach/departure slabs, concrete roadway pavement, header walls, expansion/control joints, salt sheds concrete medians.

### APPLICATION

Apply only when temperatures will be above 40° F (4° C) for at least 2 hours following application.

Clean surface to remove any dirt, laitance, curing compounds or coatings that may prevent Transil® 244(+) from penetrating. Do not use citrus or acidic cleaners. If acidic or d-limonene cleaners have been used, neutralize the surface using an alkaline cleaner (TSP, Tide laundry detergent, etc.).

Using a sprayer, apply Transil® 244(+) evenly on the surface. Keep the surface wet with product for at least 20 minutes, adding more product where needed.

For vertical surfaces, apply “wet on wet” starting at the highest elevation, spraying to maintain a 6” drip line below the spray pattern.

On newly placed, broom-finished concrete, Transil® 244(+) may be applied seven days following finishing. As the material dries into the surface, spread out any puddles with a soft bristle broom. If curing materials have been applied, it may be necessary to apply Transil® 244(+) at a later time after removing the cure.

May apply epoxy overlay systems at a later date without removal or additional surface preparation.

The surface is ready for use when dry.

\*It may be necessary to spray water on hot concrete with a surface temperature above 90° F (32° C) to cool the surface prior to application so Transil® 244(+) does not flash-dry on the surface.

Proceed with product application once the surface is dry.

\*Before application, always do a small test sample in a less-visible area to be sure there are no variables or contaminants in the substrate that may be incompatible with this product.

### ESTIMATED COVERAGE

Smooth-finished: 600-800 ft<sup>2</sup> per gallon (14.7-19.6 m<sup>2</sup> per liter)

Broom-finished: 200-300 ft<sup>2</sup> per gallon (6.1-8.6 m<sup>2</sup> per liter)

*\*Coverage rate will vary with concrete porosity and environmental conditions.*

### CLEAN UP

Use soap and water to clean tools and equipment. Although Transil® 244(+) is nontoxic and environmentally safe, it is alkaline. Use up or dry out extra material and dispose of according to local regulations. Do not pour into sewer systems or storm drains.

### SAFETY/HEALTH INFORMATION

KEEP OUT OF REACH OF CHILDREN.

Do not drink. If swallowed, do not induce vomiting; drink two glasses of water and call a physician. Wear goggles and gloves. If splashed in eyes, rinse eyes immediately with clean water and call a physician if irritation persists. Clean skin with soap and water.

CAUTION: Surfaces wet with Transil® 244(+) may be slippery. Additional precautions, safety information and first aid treatments are contained in the Safety Data Sheet.

### PROPERTIES

Form: Liquid

Color: Red tint, dries clear

Odor: Slight to none

Total Solids: 17.1%

Specific Gravity: 1.10

pH: 11-12

VOC Content: <50g/L

Flash Point: N/A

Freeze Point: 32° F (0° C)

Shelf Life: 1 year in unopened, sealed container

### PACKAGING

- 1-Gal Jug • 3.79 L
- 5-Gal Pail • 18.93 L
- 55-Gal Drum • 208.20 L
- 275-Gal Tote (IBC) • 1040 L

### STATED LIMITATIONS

A light lithium residue may form on the surface after the product dries. This residue is non-detrimental and will wear or weather off with normal use. This is excess Transil® 244(+) that was not absorbed and can be removed with a stiff broom or auto-scrubber. If the product is heavily overapplied, mechanical abrasion may be required to remove excess build-up.

Transil® 244(+) will not bridge or fill cracks and will not salvage honeycombed or structurally unsound surfaces. Not suitable for asphalt, non-cement surfaces or painted surfaces. Paint and coatings may be applied over the top of Transil® 244(+).

If Transil® 244(+) comes into contact with glass, fabric, metal, or painted surfaces, immediately wipe contaminated surfaces with a damp cloth, then wipe dry with a second clean cloth.

Make certain the most current versions of the Transil® 244(+) Product Data Sheet and SDS are being used. Call Customer Service (1-866-375-2280) or visit our website ([www.convergentconcrete.com](http://www.convergentconcrete.com)) to find additional tips, guidelines and specifications. Proper application is the responsibility of the user. Field visits by E-Chem Personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the job site.

### TECHNICAL SERVICE

A staff of trained service personnel offers design assistance and technical support. For technical assistance, contact our Technical Service Department:

- Technical Service Customer Care  
505.217.2121
- Email [mail@e-chem.net](mailto:mail@e-chem.net) or go to:  
[www.e-chem.net](http://www.e-chem.net).

For medical emergencies only, call Infotrac (800) 535-5053 • Outside USA (352) 323-3500