echem
A Meridian Adhesives Group Company

TRANSIL® SXT(+)

Concrete Wear Surface Extender with Anti-Scaling Treatment

(SiRE)™ Li
Patented Technologies by Advan
Silicon Reactive Lithium
Concrete Treatment

DESCRIPTION

TRANSIL® SXT(+) is a clear, penetrating, breathable, surface-applied liquid treatment which strengthens, protects and hardens concrete pavements in cold weather climates subjected to freeze-thaw cycling, studded tires, chains, snow plows, and deicers. The high performance treatment maximizes durability and longevity of tined, diamond ground, grooved, milled, shot-blasted, and/or re-textured surfaces making them less prone to rutting and early wear. Reduces and mitigates alkali silica reaction and spalling at the surface of exposed concrete.

ADVANTAGES

- Reactive lithium and lithium acetate chemistry provides very low sodium and potassium elements (only trace amounts-- lowest in the industry) promoting enhanced bonding with calcium hydroxide to form insoluble bonding.
- Molecular size of lithium provides for deeper penetration and more permanent protection enhanced abrasion resistance and durability.
- Non-soluble / Non-expansive lithium bond will not absorb moisture-a characteristic critical for scale resistance.
- UV stable, will not flake or peel.
- Chemically reacts with concrete to produce insoluble calcium silicate hydrate making it harder and less permeable. Reduces dusting for cleaner and safer environments.
- Easy one coat application. No water wash required. Multiple applications may be required due to degree of alkali silica reaction.
- Can be applied on freshly placed, new or existing pavement surfaces.
- Curing compounds can be applied on top of treated surfaces to provide ultimate hydration without discoloring or whitening the surface.
- Contains less than 2% sodium or potassium salts (Na and K silicates are know to contribute to surface crazing, efflorescence, and surface alkali silica reaction).
- Water based, contains no solvents, Low VOC content, < 50g/L.
- Extends the life expectancy, and integrity of the pavement enhancing surface durability.
- Cost effective, safe and rapid return to service.

TESTING/COMPLIANCE

- ASTM C672.
- 90% reduction in scaling.
- Recommended for use on concrete classes both new and existing concrete pavement surfaces.

APPLICATIONS

For use on concrete pavements for highways, parking decks, parking structures and airport runways, as a pavement preservation treatment designed to enhance anti-scaling properties, abrasion and wear resistance of concrete surfaces.

LIMITATIONS

Important note: CONCRETE SURFACES ONLY. Structural rehabilitation of pavements should be analyzed by a qualified, licensed structural engineer. For subsequent coatings applications (curing compounds, epoxies, High friction Surface treatments (HFST) HiMod overlays), perform proper surface preparation and consult the coating manufacturer for more instructions. Concrete mixture and curing compound, admixtures, form release agents, curing compounds may adversely affect penetration or reaction.

TRANSIL® SXT(+) is not a crack filler.

- DO NOT USE as a joint or expansion joint filler. The material is not designed to bridge or repair cracks.

- DO NOT USE on asphalt surfaces.
- DO NOT allow TRANSIL® SXT(+) to come in contact with any glass, fabric, metal, or painted surfaces. Immediately wipe contaminated surfaces with a clean water saturated cloth, then wipe dry with a second clean cloth.

PACKAGING

- 1 Gal • 8.8 lbs. • 4 kgs
- 5 Gal Pail • 44.1 lbs. • 20kgs
- 55 Gal Drum • 486 lbs. • 220.5 kgs
- 275 Gal Tote • 2,428. lbs. • 1101 kgs

COVERAGE

Roadway Pavement 150-200 ft^2 per gallon (1 liter per 3.67 to 7.35m^2)
**Coverage rate will vary with each concrete quality*

DRYING TIME

1 hour

PHYSICAL PROPERTIES

Form: Clear, pale light green, water-based solution
Total Solids: 9.9%
100% Active Ingredients of total solids
Specific Gravity: 1.06
pH: 11.5
V.O.C.: less than 50g/L
Freeze point: 32° F(0° C)
Depth of Surface Penetration: 2-8mm
Shelf Life: 1 year in factory sealed container

APPLICATION PROCEDURES & INSTRUCTIONS

Application by spray rig, squeegee or brush to new or existing concrete surfaces. (Always test each concrete surface for suitability and desired results. Let surface dry before inspection and approval of desired application.)

Surface Preparation

Roadway dirt and debris shall first be removed from the area of the deck to be treated. Surfaces to which the sealer is to be applied shall be free of dust and debris; swept, sandblasted, or shot blasted then manual or power broom swept and blown with compressed air so that surface shall be dry and free of dust and dirt. High pressure compressed air shall be used to blow all loose material from visible cracks. The cleaning equipment shall be fitted with suitable traps, filters, drip pans, driers and other devices to prevent oil and other foreign material from being deposited on the surface. Traffic shall not be allowed on the clean surface prior to application of the sealer. All traces of asphalt or petroleum products and concrete curing seals shall be removed by the abrasive blasting prior to air sweeping.

Installation/Specification

Materials shall be stored at 18-27º C (65-80º F). The temperature of the surfaces to be treated may range from 4.4º C (40º F) to 49º C (120º F). The Materials shall be stored at 18-27º C (65-80º F). The system shall provide a material reaction on the concrete surface a time of not less than 20 minutes. The time shall be adjusted to compensate for the change in temperature throughout the day. The temperature of the surfaces to be treated may range from 4.4º C (40º F) to 49º C (120º F). The Contractor may request a technical representative to be on site during initial application. Spray bar through positive displacement atomization of the treatment. Compressed air shall not be used to produce the spray. Cleaning and flushing of equipment, tools, etc., shall be done with an appropriate method.Spray bar through positive displacement atomization of the treatment. Compressed air shall not be used to produce the spray. Material is to be gravity fed. Cleaning and flushing of equipment, tools, etc., shall be done with an appropriate method.

Before using the material the Contractor shall submit to the Director copies of the manufacturer certified test data showing that material complies with the qualitative and quantitative requirements of this specification.

When the material has been approved by the Director, further testing by the manufacturer will not be required unless the formulation of manufacturing process has been changed, in which case new certified test results will be required. The manufacturer shall certify that the formulation is the same as that for which data has been submitted.

The Transil® SXT(+) material shall be applied by a low pressure sprayer that evenly distributes the material in a spray rate that meets the minimum required application rate as determined by specification.

Certificate of Installation and License (Patented)

A certificate of material installation and product license maybe be requested for Transil® SXT(+) private, state or federal agency projects requiring proof of application license and material certificates. Contact an E-Chem representative to provide sample submittals, product retention samples and/or certificate of analysis (C of A) for product shipments if requested for project.

CLEAN UP

Use water to clean tools and equipment. TRANSIL® SXT(+) treatments are alkaline and all applicable regulations should be followed for proper disposal.

TECHNICAL SERVICES

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 or go to:
  www.e-chem.net.

SAFETY

Please refer to the Safety Data Sheet (SDS) for Transil SXT(+). Call E-Chem for more information at (505) 217-2121.