

Pentra-Shield[®]

Concrete Surface Hardening Densifier with Anti-scale and Freeze-thaw Protection

Convergent Concrete Technologies, LLC.

Specialty Chemical Concrete Treatments

115 North 1380 West Orem, Utah 84057 United States of America

Office: 801-375-2280

www.convergentconcrete.com

(SiRE)[™] Li

Patented Technologies by Advan Silicon Reactive Lithium

Concrete Treatment

PRODUCT DESCRIPTION

Pentra-Shield[®] is an exterior concrete and masonry Nano-Lithium densifier that dramatically increases protection of treated surfaces from freeze-thaw, scaling and spalling damage. This specialty treatment strengthens exposed concrete like parking structures, sidewalks and driveways to minimize damage caused by winter weather.

NOCK NOC

Pentra-Shield[®] is a penetrating, reactive, breathable solution that reduces moisture absorption and leaves no surface film or discoloration. This silicon reactive, lithium-based solution (SiRE)[™] is VOC compliant and easy to apply.

Surfaces protected with Pentra-Shield[®] have unique protective benefits that include increased strength, durability, and repellency. This treatment also provides protection against efflorescence and water intrusion. It may be applied to both newly-placed concrete and existing concrete to protect against damage from the elements.

KEY BENEFITS

- Protects against freeze-thaw cycles and de-icing chemicals
- Reduces scaling and spalling
- No surface film to peel or wear off
- Does not alter the coefficient of friction of the surface
- Will not discolor or change the substrate surface appearance
- Reduces porosity and increases strength and durability
- VOC compliant, may contribute to LEED points (IEQ credit)

Customer Service: Call 1-866-375-2280

Visit our website: www.convergentconcrete.com

Or scan the code:



USES

Parking Garages, Fire Stations, Sidewalks, Driveways, Loading Docks, Aircraft Hangars, Grocery Stores, Automotive Dealerships, Shipping Terminals, Vehicle Maintenance Areas, Office Buildings, Healthcare Facilities, Cafeterias/Restaurants, Correctional Institutions, Retail & Shopping Centers, Schools, Stadiums, Veterinary Clinics, Common Areas, Laboratories, Lobbies, Mechanical Rooms, Mezzanines, Manufacturing Facilities, Warehouses, Storage, Distribution Centers, Food Processing Plants, Textile Mills, Wastewater Treatment Plants, Pharmaceutical Plants, Electronic Facilities, Cold Storage/ Freezers, Beverage Bottling Plants, Chemical Processing Plants, etc.

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 Pentra-Shield[®] 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 Pentra-Shield[®] evenly on the surface. Keep the surface wet with product for at least 20 minutes, adding more product where needed.

On newly placed, broom-finished concrete, Pentra-Shield[®] may be applied seven days following finishing. As the material dries into the surface, spread out any puddles with a soft bristle broom or a flat microfiber pad. If curing materials have been applied, it may be necessary to apply Pentra-Shield[®] at a later time after removing the cure.

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 Pentra-Shield[®] 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

Broom-finished: 150-250 ft² per gallon (3.7-6.1 m² per liter) *Coverage rate will vary with concrete porosity and environmental conditions.

CLEAN UP

Use soap and water to clean tools and equipment. Although Pentra-Shield® is non-toxic 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.

MAINTENANCE

Clean with Pentra-Clean[™] (CR) or neutral pH cleaners as needed. If additional protection or gloss is desired, apply Pentra-Finish[™] (HG), Pentra-Pel[™] (SI), or Pentra-Guard[®] (EXT). Consult a Convergent Concrete Representative for further information.

Technical Service

Customer Care: Toll Free 866-375-2280 or 801-375-2280

Email:

info@convergentconcrete.com

Web:

www.convergentconcrete.com

For Chemical/Medical Emergencies: Infotrac 800-535-5053

Outside USA 352-323-3500

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 Pentra-Shield® may be slippery.

Additional precautions, safety information and first aid treatments are contained in the Safety Data Sheet.

PROPERTIES

Form: Liquid Color: Clear/ light green, dries clear Odor: Slight to none Solids: 10.4% Specific Gravity: 1.06 pH: 11-12 Flash Point: N/A V.O.C. Content: <50g/L 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

LIMITATIONS

A light lithium residue may form on the surface after the product dries. This is excess Pentra-Shield[®] 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.

Pentra-Shield[®] 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 Pentra-Shield[®].

If Pentra-Shield[®] 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 Pentra-Shield[®] Product Data Sheet and SDS are being used. Call Customer Service (1-866-375-2280) or visit our website (www. convergentconcrete.com) to find additional tips, guidelines and specifications. Proper application is the responsibility of the user. Field visits by Convergent Concrete Personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the job site.

Technical Service

Customer Care: Toll Free 866-375-2280 or 801-375-2280

Email:

info@convergentconcrete.com

Web:

www.convergentconcrete.com

For Chemical/Medical Emergencies:

Infotrac 800-535-5053 Outside USA 352-323-3500

WARRANTY

The product and application information contained herein is offered in good faith and we believe it to be accurate. However, since conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent. Convergent Concrete Technologies, LLC.'s sole warranty is that our products will meet our specifications at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

CONVERGENT CONCRETE TECHNOLOGIES, LLC. SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. CONVERGENT DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.



Refer to www.convergentconcrete.com for latest Technical Data Sheet and MSDS. Convergent Concrete Technologies, LLC. ~ Specialty Chemical Concrete Treatments • 115 North 1380 West • Orem, Utah 84057 • 801-375-2280

UNIQUE STRENGTHS, UNMATCHED PERFORMANCE[™]

©2020 Convergent Concrete Technologies, LLC. All Rights Reserved.

Pentra-Shield[®] is a registered trademark of Convergent Concrete Technologies, LLC. Nano-Lithium[®] brand name and logo are registered trademarks of Advanced Concrete Technologies, LLC ("ADVAN") and sub-licensed to Convergent Concrete Technologies, LLC, under a non exclusive co-brand/technology license. All rights reserved. ADVANCED CONCRETE TECHNOLOGIES, LLC makes no claim as to the product performance or product shown to be other than as warranted. REVISION DATE 071420