



Pentra-Pel

(SI) Surface Impregnator with Advanced Micro-Bonding Stain Protection

Convergent Concrete Technologies, LLC.

Specialty Chemical Concrete Treatments

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PRODUCT DESCRIPTION

PENTRA-PEL® (SI) Surface Impregnator with Advanced Micro-bonding Stain Protection, hardens, densifies, and seals with its reactive hydrophobic water-repellant properties, providing protection against most stains. Left untreated, water, oils and other liquids can easily penetrate cementitious substrates and natural stone, leaving unwanted stains and stubborn hard to remove deposits that can damage or etch the surface. **PENTRA-PEL® (SI)** is designed to penetrate, seal and protect porous and absorbent surfaces that are prone to water-borne staining, efflorescence, dirt and grime build-up. **PENTRA-PEL® (SI)** also reduces rust discolorations and oil and grease penetration. This strong protective barrier is also breathable, allowing the substrate to release moisture.

PENTRA-PEL® (SI) combines the benefits of **(SiRE)** lithium silicate densification with reactive silicone chemistry for superior stain protection. This unique stain repellent impregnating sealer alters the surface tension of mineral substrates producing a water repellent, less porous substrate to keep water and aggressive water-soluble salts, such as chlorides and sulfates, out. The chemical reactive and active ingredients seal and densify the capillaries reducing the porosity within the substrate adequately blocking surface moisture while still maintaining the concrete's ability to breathe.

When sprayed on new or existing surfaces, this reactive penetrant reacts with free calcium to form insoluble calcium silica hydrate to make concrete, stone, and masonry surfaces more water, stain, and abrasion resistant and easier to clean.

CUSTOMER SERVICE:

(1-866-375-2280) to verify the most current versions, visit our website: www.convergentconcrete.com or scan the code.

KEY BENEFITS

- Heavy duty protection against most water-based stains
- Hardens, densifies, and seals--chemically bonded impregnation
- Weather resistant, Not susceptible to UV damage
- Water and Oil Repellency
- Stain and Soil Resistant
- Scrub and Wear Protection
- Preserves natural look
- Breathable--allows interior moisture to escape without damaging sealer
- Penetrates--no film to lift or peel off
- Reduces efflorescence and surface bloom
- Easy-to-use, Water-based formula

USES

Substrates: Concrete Polished, Steel troweled, and Cementitious toppings, Stamped Concrete, Exposed Aggregate, Concrete Block/Cinderblock, Masonry, Pavers, Bricks, Porous Tile, Natural and Engineered Stone.

Suggested Areas : Resorts, hotels, recreational facilities, and commercial, retail and residential flooring - driveways, sidewalks, walkways decks, foyers, landscaping and retaining walls, pool decks, etc.

APPLICATION

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.

Precautions: Apply only when temperatures will be above 360°F (2°C) for at least 4 hours following application. Clean surface to remove any dirt, laitance, curing compounds or coatings that may prevent **PENTRA-PEL® (SI)** from penetrating the surface. Do not use citrus or acidic cleaners. If acid dyes or cleaners have been used, neutralize the surface using an alkali cleaner (TSP, Tide laundry detergent, etc.). Do not use high pressure sprayers. In hot, windy conditions, it may be necessary to spray water on hot concrete to cool the surface prior to application so **PENTRA-PEL® (SI)** does not flash-dry on the surface. If **PENTRA-PEL® (SI)** comes in contact with glass, fabric, metal, or painted surfaces, immediately wipe contaminated surfaces with a damp cloth, then wipe dry with a second clean cloth.

Using an HVLP sprayer, or a pump-up sprayer for smaller jobs, spray **PENTRA-PEL® (SI)** evenly on the surface. Spread out any pools with a soft bristle broom or a flat microfiber pad. Keep surface wet for at least 20 minutes, adding more material where needed. During this time, distribute excess sealer over entire area to ensure even penetration. **DO NOT ALLOW EXCESS PENTRA-PEL® (SI) TO DWELL ON THE SURFACE.** Surface is ready for use when dry, but the complete reaction may take up to two weeks to develop depending on site temperature and conditions.

In cool, humid, or enclosed conditions, **PENTRA-PEL® (SI)** may stay wet for a long time. Do not over apply. Use a micro-fiber flat mop or soft bristly broom to spread product evenly. If concrete is dyed, acid stained, or integrally colored, after 20-30 minutes of dwell time, use a flat micro-fiber mop or soft bristle broom to spread evenly. After bringing the surface to the desired surface profile by grinding or buffing, **PENTRA-PEL® (SI)** may be applied to enhance stain and wear protection.

ESTIMATED COVERAGE

On horizontal surfaces, the liquid material should pond on the surface for at least 20 minutes. Coverage rates on steel troweled, semi-porous or engineered stone range from 600-800 ft² per gallon (1 liter per 14 to 19 m²) Broom Finished 250-350 ft² per gallon (1 liter

per 6 to 8.5m²). *Coverage rate will vary with concrete mix, finish, and environment. For use on horizontal interior, exterior, above grade applications. On vertical surfaces please consult your sales representative.

Make certain the most current version of the **PENTRA-PEL® (SI)** Product Data sheet and SDS are being used. Please read this information prior to use; call Customer Service (1-866-375-2280) to verify the most current versions or visit our website: www.convergentconcrete.com where you can also 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.

CLEAN UP

Use soap and water to clean tools and equipment. Although **PENTRA-PEL® (SI)** is non-toxic and environmentally safe, it is alkaline; therefore, use up or dry out extra material and dispose of according to local regulations. Don't pour into sewer systems or storm drains.

FINAL RESULTS

Typical drying time is 1-2 hours for both vertical and horizontal surfaces. Floors are ready for traffic and use when dry. A light lithium residue may form on the surface after the surface is dry. This is excess **PENTRA-PEL® (SI)** that was not absorbed and can be removed with a stiff broom, power sweeper or floor machine (if required). Water repellency and hardness continues to develop for up to 7 days following the application; however, significant results should be visible within 24 hours.

SAFETY/HEALTH INFORMATION

KEEP OUT OF REACH OF CHILDREN. This product is alkali. Do not drink. If swallowed, do not induce vomiting, drink 2 glasses of water and call physician. Keep container closed tightly when not in use. Wear goggles and gloves. If splashed in eyes, rinse eyes immediately with clean water and call a physician if irritation persists. **PENTRA-PEL® (SI)** will dry out and irritate the skin. Clean skin with soap and water promptly. CAUTION: Surfaces wet with **PENTRA-PEL® (SI)** may be slippery. Additional precautions, safety information and first aid treatments are contained in the Safety Data Sheet.

PROPERTIES

Active Ingredients: 100% of total solids
Specific Gravity: 1.10
pH: 11
VOC Content: <50g/L
Flash Point: N/A
Freeze Point: 32°F (0°C)
Shelf Life: 1 Year in unopened factory sealed container

PACKAGING

1 Gallon Jug
5 Gal Plastic Pail
55 Gal Drum
275 Gal tote (IBC)

LIMITATIONS

PENTRA-PEL® (SI) 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-PEL® (SI)** follow paint or coating manufacturer's instructions for surface preparation.)

TECHNICAL SERVICE

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

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WEB

www.convergentconcrete.com

**For chemical/medical
emergencies only,**

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

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Refer to www.convergentconcrete.com for latest Technical Data Sheet and MSDS.

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