



# Pentra<sup>®</sup>-Sil

## (AC) Alkalinity Control Formula Primer

Convergent Group S.A.

Specialty Chemical Concrete  
Treatments Commercial

Products Group  
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Concrete Treatment  
[www.nano-lithium.com](http://www.nano-lithium.com)



### PRODUCT DESCRIPTION

**Pentra<sup>®</sup>-Sil (AC) Advanced Lithium Alkalinity Control Formula Primer is specifically designed for use on sweating or efflorescing floors as a pre-treatment for Pentra<sup>®</sup>-Sil.** The unique treatment will neutralize substrate surfaces suffering from alkalinity problems. It reduces sweating of the concrete surface, neutralizes surfaces treated with sodium or potassium silicates and reduces vapor drive that carries the alkaline salts to the surface of the concrete.

High pH levels at the surface of concrete can attract moisture as Mother Nature acts to equalize an existing pH imbalance by drawing moisture from the concrete slab towards the surface or from the air above the slab. Reduction of this phenomenon has been seen through the use of **Pentra<sup>®</sup>-Sil (AC)** and **Pentra<sup>®</sup>-Sil (C&N)**. It is aggressively worked into the pre-cleaned surface where it is allowed to penetrate deep into the substrate to control surface alkalinity.

By impregnating the surface with **Pentra<sup>®</sup>-Sil (AC)**, the permeability of the surface is reduced, which reduces the migration of alkaline salts to the surface. This prevents them from reacting with carbon dioxide to form efflorescence. (For serious problems we recommend a full treatment consisting of **Pentra<sup>®</sup>-Sil (C&N)**, **Pentra<sup>®</sup>-Sil (AC)**, and **Pentra<sup>®</sup>-Sil (HD)**).

### KEY BENEFITS

- Reduces sweating of the concrete surface.
- Neutralizes surfaces treated with sodium or potassium silicates
- Reduces vapor drive that carries the alkaline salts to the surface of concrete.
- Reduces alkalinity drive.

**CUSTOMER SERVICE:**

(+32 60 390 752) to verify the most current versions, visit our website: [www.convergent-group.com](http://www.convergent-group.com) or scan the code.

**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.**

1. Thoroughly clean the substrate so it is free of all foreign materials such as bond breakers, curing agents, form release oils, dust, construction laitance, drywall residue etc. The surface should be dry before proceeding.
2. Use a low-pressure sprayer to apply **Pentra®-Sil (AC)** so as to saturate the surface.
3. Work the **Pentra®-Sil (AC)** into the surface using an automatic scrubber or stiff broom to enhance penetration. Allow the **Pentra®-Sil (AC)** to dwell and penetrate 20-30 minutes. Keep the surface moist with **Pentra®-Sil (AC)** for 20 to 30 minutes (adding more product if necessary).
4. Remove all residual **Pentra®-Sil (AC)** with clear water. Let the surface dry. Make certain the most current versions of **Pentra®-Sil (AC)** Product Data sheet and MSDS are being used; Please read this information prior to use; call Customer Service (+32 60 390 752) to verify the most current versions or visit our website: [www.convergent-group.com](http://www.convergent-group.com).

**ESTIMATED COVERAGE**

Broom Finished:	1 liter per 6 to 8.5m <sup>2</sup>
Steel Troweled:	1 liter per 9.8 to 13.5m <sup>2</sup>
Typical Coverage Rates:	1 liter per 6 to 9.8m <sup>2</sup>

\*Coverage rate will vary with concrete quality, finish, and environment.

**CLEAN UP**

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

**SAFETY/HEALTH INFORMATION**

**Pentra®-Sil (AC)** is an aqueous Lithium silicate solution that uses proprietary compounds. The treatment is mildly alkaline and may cause eye and skin irritation.

KEEP OUT OF THE REACH OF CHILDREN. Do not take internally. Avoid prolonged contact with skin. Avoid ingestion of material. If swallowed, do not induce vomiting— call physician. Avoid contact with eyes. Protective clothing is recommended. Protective goggles are recommended in case of splashing. If splashed in eyes, wash immediately with clean water and call physician if irritation persists. Contact areas should be thoroughly washed with soap and water. Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet. **Pentra®-Sil (AC)** will etch glass and painted surfaces. Immediately wash off with water all overspray from glass and painted surfaces.

**Caution:** Surfaces wet with **Pentra®-Sil (AC)** may be slippery.

**PROPERTIES**

Form:	Clear, colorless, aqueous solution
Total Solids:	16%
Specific Gravity:	1.04
pH:	11.0
Flash Point:	N/A
V.O.C.:	Content less than 50 g/liter
Freeze point:	0°
Friction coefficient:	Does not appreciably affect coefficient*
Depth of Surface Penetration:	2-8mm
Shelf Life:	1 year in factory sealed container

**PACKAGING**

20 L basket  
200 L Drum  
600 L Tote  
1000 L Tote

**LIMITATIONS**

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

**TECHNICAL SERVICE**

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**WARRANTY**

**LIMITED WARRANTY NOTICE.** Every reasonable effort is made to apply exacting standards both in the manufacture of our products and in the information that we issue concerning these products and their use. We warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, CONVERGENT GROUP S.A. ("CONVERGENT") MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and CONVERGENT shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of CONVERGENT'S Research Director. This information and all further technical advice are based on CONVERGENT'S present knowledge and experience. However, CONVERGENT assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, CONVERGENT disclaims all WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. CONVERGENT SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. CONVERGENT reserves the right to make any changes according to technological progress or further developments. It is the customer's (Authorized Applicator) responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used. CONVERGENT reserves the right to change specifications referred to in this literature at any time, without prior notice. The information contained herein is, to our knowledge, true and accurate. While this material is furnished in good faith, no warranty expressed or implied, of merchantability, completeness, fitness or otherwise is made. This material is offered only for your consideration, investigation and verification, and CONVERGENT disclaims any liability incurred from the use thereof and shall not in any event, be liable for any special, incidental or consequential damages arising from such use. This information is not intended to be all inclusive and the manner and conditions of use and handling of any material may involve other or additional considerations specific to the use or user. Nothing herein should be construed as permission or recommendation to infringe any patent or as to any specific use. No agent, representative or employee of this company is authorized to vary any term of this notice.



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CONCRETE TECHNOLOGIES

Refer to [www.convergent-group.com](http://www.convergent-group.com) for latest Technical Data Sheet and MSDS.

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