

PRODUCT DATA

ACRYL-PEN

Penetrating, high performance, pigmented, light stable, sealer and stain for exterior horizontal concrete surfaces.

VOLATILE ORGANIC COMPOUND (VOC) REGULATORY COMPLIANCE

	USEPA	OTC I	OTC II	AZ-MCAQMD	CARB - 2000	CARB - 2007	CARB-2013CAQMD	CANADA
ACRYL-PEN 350	■	■	■	■	□	□	□	■
ACRYL-PEN 600	■	□	□	□	□	□	□	□

HOW IT WORKS

ACRYL-PEN's uniquely reactive silane chemistry results in penetration of concrete's invisible micro-pores, as well as the larger visible macro-pores, and penetration into all surface cracks, including the normally invisible minute crazing cracks occurring during the curing/shrinking process. ACRYL-PEN enters concrete and preferentially reacts chemically with concrete components forming a chemical bond that defies dissolution. The components subsequently polymerize forming a flexible network that seals micro-cracks and acts to prevent water molecules in liquid state (absent head pressure) from entering substrate, yet allowing positive water vapor transmission.

APPLICATIONS

- ◆ Use to beautify and seal pedestrian walkways, balconies, plaza decks and entryways.
- ◆ Ideal for use on sporting arena concourses, walkways and ramps.
- ◆ Use in exterior food preparation areas to prevent food staining and to facilitate cleanup.
- ◆ Use in exterior shopping mall and food court applications to beautify, seal and protect exterior concrete.

ADVANTAGES

- ◆ Penetrates and bonds permanently with concrete.
- ◆ Will not fade, chalk or flake.
- ◆ Protects concrete surfaces from abrasion, delamination and related cracking and freeze/thaw damage and from staining from food or oil.
- ◆ Protection is deep within substrate surfaces where it is not subject to early failure due to weather factors, traffic or other abrasive mechanisms.
- ◆ Allows precise color application for detailed designs.
- ◆ Breathable to allow water vapor transmission.
- ◆ Minimal surface film accumulation.
- ◆ A non-slip additive can be incorporated for increased slip resistance.
- ◆ Available in 11 standard colors. Custom colors are also available. Call Nox-Crete for details.
- ◆ Available in two different versions to comply with federal and regional VOC requirements.

⚠ PRECAUTIONS ⚠

- ◆ Due to the low flash point, ACRYL-PEN is only recommended for exterior applications and is NOT recommended for interior or enclosed applications.
- ◆ Not for application to smooth troweled concrete surfaces. Use only on broom finished or float finished concrete surfaces.
- ◆ Do not use where possibility of hydrostatic pressure exists or in applications involving substrate immersion.
- ◆ Application of ACRYL-PEN to surface dry substrates that are internally wet may result in excessive surface film accumulations and mottling or discoloration.
- ◆ The application of ACRYL-PEN, depending on the concrete surface texture, may reduce the slip resistance of the surface, particularly when wet with water. If so, it may be necessary to add Nox-Crete's BLEACHED ALUMINUM OXIDE NON-SLIP ADDITIVE to the second coat application of ACRYL-PEN for increased slip resistance.
- ◆ Excessive or multiple applications of ACRYL-PEN may develop sufficient film accumulations to inhibit moisture vapor transmission which may lead to blistering.
- ◆ Not recommended for application to frozen concrete surfaces or when ambient or substrate temperatures are below 40° F (4° C) and/or if ambient temperature is expected to drop below 40° F (4° C) within 12 hours following application.
- ◆ Best results are obtained when Acryl-Pen is applied during the morning or evening and not in the direct sunlight. Application of Acryl-Pen in direct sunlight or under extremely hot and/or windy conditions can result in bubbling or blistering.

USE INSTRUCTIONS

- ◆ Request current (verify) product literature, labels and safety data sheets from manufacturer in writing and read thoroughly before product use.
- ◆ Site environmental conditions, substrate conditions, and construction can have a major affect on product selection, application methods, procedures and rates, appearance and performance. Product literature provides general information applicable to some conditions. However, an adequate site test application by the purchaser or installer in advance of field scale use is mandatory (irrespective of any other verbal or written representations) to verify product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.

Stains & Sealers

nox-crete®

chemical solutions to concrete problems

- ◆ ACRYL-PEN is designed to be applied in two coats. A minimum of 12 hours dry/cure time is recommended between coats to reduce color bleeding between coats.
- ◆ Usually tack free in less than 30 minutes at 68° F (20° C). Maximum resistance results after 72 hours at 68° F (20° C) 50% RH.

Surface Preparation

- ◆ Verify that concrete surface profile (CSP) is between CSP 3 and CSP 4, as defined by the International Concrete Repair Institute (ICRI). Surface profiles less than CSP 3 will require additional scarifying, while surface profiles greater than CSP 4 will require smoothing.
- ◆ Concrete surface to be treated must be a minimum of 28 days old and free from surface accumulation of dust, dirt, oil, debris, curing compounds, bondbreakers, sealers, rubber residue, paints and other compounds which would interfere with product penetration and bonding. Mechanical scrubbing is recommended.
- ◆ Surfaces evidencing laitance or efflorescence may require acid etching prior to product application. Rinse thoroughly to remove any excess acid or reaction byproducts and neutralize to a neutral PH.

Application

- ◆ Allow all cleaned surfaces to dry a minimum of 48 hours prior ACRYL-PEN application. Substrate temperatures should be between 40° F and 90° F (5° C and 32° C).
- ◆ Mechanically mix Component "A" thoroughly. Avoid incorporating air.
- ◆ Combine Component "A" and Component "B" and mechanically mix for an additional two (2) minutes.
- ◆ Apply using brushes, rollers, power rollers or low pressure coarse spray to the point of saturation and surface rejection. For more transparent coloration, apply thinly.
- ◆ Avoid surface film accumulations, runs or puddles. Promptly pick up excess material to avoid surface film accumulations, streaks or gloss.
- ◆ WORK TO CONTINUOUS WET EDGE ONLY, to avoid streaks on architectural surfaces. Best results are obtained if applied at low sun angles. CAUTION: Excessive surface film accumulations can reduce natural substrate skid resistance and inhibit vapor transmission or breathing.
- ◆ The application rate of ACRYL-PEN will vary widely depending on the concrete surface texture and porosity. The typical application rate is 100-200 sf / gal. (2.5-5.0 sm / L) for the first coat and 150-200 sf / gal (3.8-5.0 sm / L) for the second coat.
- ◆ For additional slip resistance, broadcast Nox-Crete's BLEACHED ALUMINUM OXIDE NON-SLIP ADDITIVE immediately into the second coat and back roll to uniformly distribute.
- ◆ Avoid foot traffic on treated areas for 24 hours and heavy traffic for 72 hours (longer with substrate temperatures below 68° F (20° C)).
- ◆ Discard unused material from application equipment promptly following application and clean application equipment with suitable aromatic hydrocarbon solvent. If a sprayer is used, clean sprayer completely if sprayer is to be shut down for more than 20 minutes.

Maintenance

- ◆ Regular sweeping and washing of treated surfaces with detergent solutions is recommended. DO NOT use steam or high pressure washing equipment.

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TECHNICAL DATA

Meets ASTM C 672 Freeze Thaw Rating - Deterioration	Zero
Meets NCHRP 244 Series II Water Absorption	Max. 18.9%
Meets NCHRP 244 Series II Water Vapor Transmission	100%
Meets NCHRP 244 Series II Chloride Ion Absorption	Max. 9.0%
Meets NCHRP 244 Series IVS Chloride Ion Screening Accelerated Weathering	Min. 99.1%
Water Vapor Transmission - WVT ASTM D-1653, Mthd. B, Cond. A	3.9 grains/ft ² /hr (65.8 grams/m ² /24 hrs)
Water Vapor Permeance - WVP ASTM D-1653, Mthd. B, Cond. A	9.8 Perms (6.5 Metric Perms)

	ACRYL-PEN 350	ACRYL-PEN 600
VOC Product Classification	Reactive Penetrating Sealers	Waterproofing Sealers and Treatments
VOC, (ASTM D-2369)	350 g / L	600 g / L
Odor	Solvent	Solvent
Bulk Density	7.70 lbs/gal	7.73 lbs/gal
Flash Point (PMCC)	50° F (10° C)	81° F (27° C)
Dry (Dust/Tack Free)	2 hrs	2 hrs
Dry (Light Traffic)	12 hrs	12 hrs
Dry (Normal Traffic)	24 hrs	24 hrs

PACKAGING

Packaged in 4.75 gal (17.9 L) kits.

SHELF LIFE

Shelf life is two years. Use before the "USE BY" date stated on product packaging.

HANDLING/STORAGE

Store in a dry location within a temperature range between 40° F (4° C) and 100° F (38° C).

AVAILABILITY & TECHNICAL SERVICES

In addition to corporate offices in Omaha, Nebraska, NOX-CRETE INC. maintains regional offices and distribution centers in principal markets throughout the world. For source or technical information, call 800-669-2738 or 402-341-2080.

LIMITED WARRANTY

NOTICE-READ CAREFULLY

CONDITIONS OF SALE

NOX-CRETE offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may only be varied by written agreement of a duly authorized corporate officer of NOX-CRETE. No other representative of or for NOX-CRETE is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

NOX-CRETE warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, NOX-CRETE will replace the defective product with new product without charge to the purchaser.

NOX-CRETE makes NO OTHER WARRANTY, either express or implied, concerning this product. There is NO WARRANTY OF MERCHANTABILITY. In no case shall NOX-CRETE be liable for special, indirect or consequential damages resulting from the use or handling of the product and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which damages are claimed.

INHERENT RISKS

NOX-CRETE MAKES NO WARRANTY WITH RESPECT TO THE PERFORMANCE OF THE PRODUCT AFTER IT IS APPLIED BY THE PURCHASER, AND PURCHASER ASSUMES ALL RISKS ASSOCIATED WITH THE USE OR APPLICATION OF THE PRODUCT.

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