

**DESCRIPTION**

PENNSEAL CSH is a clear, water soluble sprayable inorganic base compound for surface application to cure, harden, and seal interior or exterior fresh concrete floors, decks, docks, ramps, and pavement; to harden and dustproof new cured bare concrete; or to renovate aged surfaces. Proportionate to coverage rate, **PENNSEAL CSH** will produce a light to moderately heavy-duty surface. It will also harden and improve the finish of architectural concrete after form stripping. **PENNSEAL CSH** is ready for use and does not require thinning.

A new superimposed hard mineral coating is formed when the inorganic polysilicates in **PENNSEAL CSH** react with the free lime and calcium carbonate in concrete, filling and sealing surface pores and capillaries. This reaction produces a harder semigloss finish.

USES

Specify **PENNSEAL CSH** for concrete floors and pavement below, at, or above grade on general commercial, industrial, institutional and multi-residential applications that demand a hard, abrasion-resistant, light to moderately heavy-duty surface, e.g. educational, medical, nursing, utility, and public buildings, industrial, processing, brewing, distilling, dairy, commercial, store, warehouse, garage, shopping centre, and office facilities, and multi-residential buildings.

On fresh concrete, **PENNSEAL CSH** restricts bleeding and evaporative loss of hydration water and guarantees a superior hardening cure and dustproof finish.

On newly cured bare concrete, **PENNSEAL CSH** deposits a hard, protective dustproofed finish.

On aged uncoated concrete or terrazzo, **PENNSEAL CSH** provides a new hard wearing dustproofed surface on sound substrates.

PENNSEAL CSH case-hardens architectural concrete and resists weathering.

PENNSEAL CSH protects floors during construction, assures easier and more thorough clean-up, which is compatible with most tile and floor covering adhesives.

ADVANTAGES

Cures, hardens, and dustproofs in one operation.

Compatible with most resilient floor-covering adhesives.

Leaves no residue on concrete, most adhesives can be applied over it when used according to directions.

Broadest application range: interior, exterior, horizontal, vertical, fresh, new, or aged surfaces.

Applies easily, dries quickly, recoats readily.

Finish achieves a technically superior physical-chemical-capillary bond to concrete, yet it is low in applied cost.

Dust, dirt and grease are easily removed, enabling faster, simpler maintenance and cleanup.

Spray equipment can be flushed; other application tools easily cleaned with water.

VOC compliant.

LIMITATIONS

Protect **PENNSEAL CSH** from freezing. In event of freeze-thaw, stir or agitate to uniformity before using. If separation is persistent, **do not apply**.

**PACKAGING**

<u>Container</u>	<u>Shipping Wt.</u>
20 litre	21 kg
200 litre	255 kg

COMPLIANCES

ASTM C 309-81, Type 1, Class A, when applied at 60 sq.ft. per gallon (or 1.2sq.m./litre); AASHTO M-148; Corps of Engineers CRD-C-3-304-85, Type 1 (or ID), Class A; USDA approved for use in meat and poultry area. VOC compliant.

TECHNICAL DATA**Guide Specification:**

Use **PENNSEAL CSH** to cure or harden and seal the surface of interior or exterior concrete floors, decks, ramps, and pavements as specified and detailed in printed instructions.

INSTALLATION**Surface Preparation:**

Newly placed (fresh) concrete: After finishing operations and the disappearance of visible surface water and when surface will bear walking workmen or footboards without damage, apply **PENNSEAL CSH** for a stonelike finish cure.

Newly cured bare concrete: Where concrete has not been membrane-cured, perform after-construction clean up, level any areas gouged by trades, and follow general clean-up instructions.

Aged concrete or terrazzo: Remove any aged membrane material with power tools or paint removers. Restore surface soundness by patching, grouting, and crack-filling. Follow clean-up instructions.

General clean-up: Remove all dirt, dust, oil, grease, asphalt, foreign matter, parting compounds. Use detergents and caustics as needed. Rinse and then remove surface water.

Vertical work: After form stripping, perform repairs and refine surface to meet job requirements. Remove parting compound remnants. Surfaces must be clean and free of visible surface water.

METHOD OF APPLICATION

Apply **PENNSEAL CSH** by brush, squeegee, hand or power spray. Under general conditions, one coat produces a light-duty surface. Surface wearability increases proportionally with each additional coat. (See Coverage section.)

Each coat must be thoroughly dried before application of a succeeding coat. (See Drying Time).

Always apply to form a continuous uniform film over the surface. Brush out puddles and runs immediately. When used as a cure, coat edges after screeds are removed, use spray application for best results.

Caution: Protect metal, glass, wood, paint, brick from contact with **PENNSEAL CSH**. If accidentally misapplied to these surfaces, wash with clean water within an hour.

Allow at least 5-7 days interval before applying tile or floor covering adhesives over **PENNSEAL CSH**. Before applying adhesives, also wash surface with water and detergent and allow to thoroughly dry.

**COVERAGE**

Coverage is influenced by surface conditions and porosity as well as job requirements, varying from 150 to 500 sq.ft. per gallon per coat. The following rates are approximate, assuming average concrete, finish, temperature and other factors.

<u>Sq.Ft. per gallon per coat</u>	<u>Rough Finish</u>	<u>Finely Textured</u>	<u>Well Trowelled</u>	<u>Recommended for optimum results</u>
Newly placed concrete	300	400	500	3 coats
Newly cured concrete	200	300	400	2 coats
When floor is to be tiled			500	1 coat
Aged concrete	150	200	250	2 coats
Aged terrazzo			500	1 coat
Vertical work		200	300	1 coat
Succeeding coats	Increase coverage rate for each succeeding coat for best results.			

CLEAN-UP

Clean brushes, tools and equipment and flush sprayers with clean water immediately after use.

DRYING TIME

PENNSEAL CSH dries in approximately 1/2 to 1 hour per coat, depending on temperature, humidity and job conditions. Each coat must be allowed to dry thoroughly before proceeding.

PENNSEAL CSH must be allowed to completely dry before any traffic is permitted. Allow 24 hours before permitting heavy traffic.

WARNING

Repeated or prolonged skin or eye contact may cause injury. Prevent contact with skin and eyes. If contact occurs, immediately flush affected area thoroughly with plenty of water.

May cause irritation of mouth, throat and stomach if ingested. Do not take internally. If ingested, **DO NOT** induce vomiting. Give water or milk if victim is conscious and not drowsy.

SEEK MEDICAL ATTENTION FOR OVER-EXPOSURE.

KEEP OUT OF REACH OF CHILDREN.

WARRANTY

PennKote Ltd. warrants its products against manufacturing and material defects. PennKote will, for a period of two years from the date of application, supply replacement material for product proven to be defective. This warranty is in lieu of any and all other warranties expressed or implied. Pennkote Ltd. and any Distributor or Retailer of this product accept no liability for incidental or consequential damage due to defective material or improper installation. The user shall determine the suitability of this product for intended use.