



SEALPROOF WPC

WATERPROOFING PENETRATING CONCRETE

Product Description

Sealproof WPC is an airless spray-applied colloidal liquid base which when applied to Portland cement concrete produces a permanent hydrostatic barrier whilst penetrates into concrete capillaries and pores, reacts with free alkali in the concrete, and forms a Calcium-Silicate-Hydrate (C-S-H) reaction in the capillaries and pores to waterproof and protect the concrete.

Sealproof WPC stabilizes the chemistry of concrete. This results in waterproofed concrete that has been tested to withstand over 250-feet of Head Pressure (75-meters). WPC forms a permanent, passive, non-destructive colloidal gel barrier beneath the concrete surface. This technology enhances the resistance to contaminants that contribute to short and long-term concrete deterioration.

Features

- Rejuvenates concrete capillary & pore structure
- Converts regular mix designs to high performance mixes
- Waterproofs existing non-coated concrete
- Accepts all coatings or coverings
- Enhances resistance to chemical and environmental attack
- Permanent protection
- Access slabs in as little as 1-hour
- Increase durability
- Saves time and money
- Non-flammable
- Zero VOC content

Application areas

Sealproof WPC may be applied on any Portland cement concrete element that requires superior protection. These include, but are not limited to:

- Precast Structures
- Parking Decks & Ramps
- Bridge Substructures & Superstructures
- Mechanical Rooms
- Roof Decks
- Architectural Concrete

Technical / Performance Data

Colors	Cloudy White (dries clear)
Odor	None
Specific Gravity	1.10
pH	+/-11.5
Flammability	0 (non-flammable)
Toxicity	None
VOC/VOS Content	0.0 g/ml
Surface Bond Quality	100% of untreated concrete
Paintability	100% of untreated concrete
Clean-up Solvent	Water
Environmental Impact	None/neutral
User Status	Friendly
Shelf Life	5 years under proper storage conditions

Procedure & Guidelines

SURFACE PREPARATION

GENERAL

Do not apply on frozen substrate or when temperature can fall below 32°F within 24hours of application.

Curing membranes, wax, paint, or foreign deposits of any kind restricting access to concrete's internal pore structure must be mechanically removed for Sealproof WPC to penetrate (i.e. surface grinding, shot blasting, bush hammering, etc.

Test porosity by applying 1ml of clean water on the surface. Water should absorb within 1 ½ - 3 minutes. If unsure, contact Sealbond Chemicals representative for guidance.

Sweep and/or vacuum the surface thoroughly prior to application. Note: It is very important to contact Sealbond Chemicals for job specific advice regarding correct application before commencing use of this product.

APPLICATION

Use a low to medium pressure sprayer complete with an extension wand and 0.091 – 0.031 inch (0.48-0.79mm) fan tip spray jet. Hold wand and spray 6 inches (15cm) from the surface of the substrate at a 90° angle.

IMPORTANT: Product **MUST** be applied using an overlapping spray pattern at 50% on the previous run.



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For slab applications, products should hold a flooded appearance (swimming pool effect) for approximately 15 minutes.

There are inherent variations in concrete density; some areas will absorb faster than others.

For vertical and overhead applications, work from lowest to highest elevation. Very light and repeated spray passes should be made on the same area until the concrete surface no longer accepts product. Move onto next area after achieving "point of rejection". Please contact your nearest Sealbond Chemicals representative for additional technical support and/or training.

Theoretical Coverage

The product dosage is 1L of Sealproof WPC per 155kg of Cement on the mix (total cementitious content). The product is applied to the mix water in accordance with the below application instructions.

Notes & Handling Precautions

- a. Use of a mask or screen while applying the product is recommended.
- b. Do not allow excess product to dry on the surface before leaving the site. Remove any excess by brooming.
- c. Areas to high porosity have a faster absorption rate and may dry faster immediately after spraying. It is important that the product is applied to achieve surface saturation. For slabs, it should appear as total flooding (swimming pool effect) over the entire surface with a thickness of approximately 1/16 – inch (1.5mm). Frequently check coverage rates. Surface saturation should hold that appearance for approximately 15 minutes. If absorption continues to be excessive, contact a Sealbond Chemicals representative.
- d. If applying coatings and/or coverings, wait a minimum of 24-hours from the time of final application of Sealproof WPC for existing concrete or until new concrete is fit for service. Then lightly sand and thoroughly vacuum the surface to remove any contaminants that maybe on the surface. Do not flush with water as mechanical removal allows faster access to the surface.
- e. Like fresh concrete itself and other alkaline materials, Sealproof WPC may etch glass, shiny aluminum, and brass if left to dry on the surface. Simply remove while wet.
- f. If considering application of this product over precast concrete products, contact Sealbond Chemicals before use as precast concrete products vary widely in porosity and construction.
- g. Application rates and methods differ when applying overhead and vertically. Contact Sealbond Chemicals Industries Inc. for additional information.
- h. DO NOT apply on frozen substrate or when temperature is near freezing.
- i. DO NOT apply when substrate is 90°F (32°C) or higher. If surface temperature is higher than 90°F (32°C) then pre-wetting with water is required. Be sure to remove any puddles before applying of Sealproof WPC.

- j. Any area that absorbs product faster than 15 minutes will need to be reapplied until the product no longer absorbs faster than 15 minutes. This is called spraying to the "point of rejection."
 - If an area is re-applied more than 3 times, contact the Sealbond Chemicals technical department for additional information.
 - If product has absorbed thoroughly in the majority of the area, but there is pooling in the low areas, use a broom to spread additional product into the areas already penetrated. Do not allow product to dry in pools. Remove excess with a damp mop.
 - After liquid absorption, treated area can be opened to foot traffic.
 - In the event of product drying on the surface, lightly and quickly sand the entire surface to remove any of the dried products. Remove dust with broom or vacuum.
 - Process is complete.

Health & Safety

Please wear rubber or plastic gloves to avoid contact with skin. Please refer to MSDS for other safety information.

Product is for Professional use only.

Storage/ Packaging

SEALPROOF WPC is available in 20 Liters pail.

This product must be stored dry, protected from sun and rain. No waterproofing works should be performed if weather is unsuitable. These includes heavy rain and moisture

Product Limitations

Not recommended for use on areas where there is an evident negative hydrostatic pressure where there's water pressure.

Additional Information - Disclaimer

The information and in particular, recommendations relating to the application and end-use of Sealbond products, are given in good faith based on Sealbond's best knowledge and specialty on construction chemical formulations. Products are properly stored and handled in accordance with Sealbond's endorsements. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. In practice, to different materials used, as well as varying working conditions and environments beyond our control Sealbond Chemical Industries Inc. strictly recommend carrying out intensive trials to test the suitability of the product with regards to the required processes and applications. Therefore, any liability for such recommendations or any oral/verbal advice is expressly excluded unless we have acted wilfully or by gross negligence. Sealbond Chemicals Industries Inc. is not liable for installation or faulty installation. It is always the responsibility of the installer/applicator/purchaser to guarantee and certify the installation of materials.

All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the Product Data Sheet for the product awareness, copies of which will be supplied on request and is free of charge.