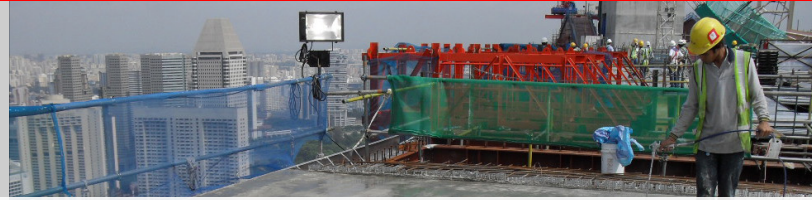


PERMANENT CONCRETE PROTECTION



Technical Data

PRODUCT CHARACTERISTICS

SCP 578 is a spray-applied treatment that penetrates into the capillaries and pores of Portland cement concrete structures and substrates to seal and waterproof the concrete from the inside out. In addition, SCP 578 reconditions the pH of old concrete, which is constantly being influenced by environmental conditions that contribute to durability issues such as carbonation and/or efflorescence.

Within the concrete matrix, it reacts with free alkali to seal the capillary pore spaces. The reaction chemically completes, leaving a stable gel within the concrete matrix, thereby reducing water migration to levels acceptable for most coatings, adhesives, and coverings.

SCP 578 withstands over 250-feet of Hydrostatic Pressure and can be effectively applied on the positive or negative side of concrete structures. There is minimum site disruption that allows early access for other trades.

It is important to point out that **SCP 578** should **NOT** be confused with conventional silicate technology such as sodium, potassium or lithium silicates that have proven detrimental to long-term concrete integrity.

Spray-Lock Concrete Protection[®] technology is unique with over 30-years proven performance.

INSTALLATION ADVANTAGES

- **Allows foot traffic in 1-hour for most flatwork. Up to 3-hours for really dense concrete and/or extremely high moisture conditions**
- **Ready to accept coatings and/or coverings in as little as 24-hours on existing concrete**
- **Can purge contaminants out of concrete**
- **0.0 g/ml VOC content**
- **Water-based**
- **Non-flammable**
- **Non-toxic**
- **Odorless**

PRODUCT BENEFITS

- **Specifically formulated to penetrate concrete matrices which allows surface to be breached while still maintaining its seal**
- **Closes capillaries and pores in concrete to stop water migration**
- **Seals concrete from the inside out**
- **Stabilizes pH**
- **Improves de-icing chemical and freeze-thaw resistance**
- **Resistance to chemical attack from soils or other sources**
- **Lab tested to withstand over 250-ft of hydrostatic pressure, 330-ft field-tested**

Description: SCP 578 is a spray-applied, penetrating Portland cement concrete treatment. It provides benefits that include: waterproofing, densification and surface hardening, resistance to salt and chemical attack, freeze-thaw damage and reinforcing steel corrosion resistance.

Where to use: SCP 578 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

Packaging & Storage: SCP 578 is packaged in 5-gallon pails, 20-liter pails and 330-gallon totes. Product shall ideally be stored in a location that is dry and between 35 °F to 100 °F (2 °C to 38 °C) ambient temperature. Optimal storage is at the middle of the temperature range. Protect from freezing. 5-year shelf life under proper storage conditions.

Surface Preparation:

1. Do not apply on frozen substrate or when temperature can fall below 32 °F within 24 hours of application.
2. Curing membranes, wax, paint, or foreign deposits of any kind restricting access to concrete's internal pore structure must be mechanically removed for SCP 578 to penetrate (i.e.- surface grinding, shot blasting, bush hammering, etc.).
3. Test porosity by applying 1ml of clean water on the surface. Water should absorb within 1½ - 3 minutes. If unsure, contact SCP representative for guidance.
4. Sweep and/or vacuum the surface thoroughly prior to application. *Note: It is very important to contact SCP for job specific advice regarding correct application before commencing use of this product.*

Application:

1. Use a low to medium pressure sprayer complete with an extension wand and 0.019 - 0.031 inch (0.48-0.79 mm) fan tip spray jet. Hold wand and spray 6 inches (15 cm) from the surface of the substrate at a 90° angle.

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

2. For slab applications, product 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. 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".

- a. If an area is re-applied more than 3 times, contact the SCP technical department for additional information.
- b. 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.
- c. After liquid absorption, treated area can be opened to foot traffic.
- d. In the event of product drying on the surface, lightly and quickly sand the entire surface to remove any of the dried product. Remove dust with broom or vacuum.
- e. Process is complete.

3. 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 SCP representative for additional technical support and/or training.

NOTES:

- Use of a dust mask or screen while applying the product is recommended.
- Do not allow excess product to dry on the surface before leaving the site. Remove any excess by brooming.
- Areas of high porosity have a faster absorption rate and may dry immediately after spraying. It is important that the product is applied to achieve surface saturation. 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 the SCP representative.
- If applying flooring or coatings, wait a minimum of 24-hours from the time of final application of SCP 578 for existing concrete or until new concrete is fit for service. Then lightly sand and thoroughly vacuum the surface to remove any contaminants that may be on the surface. Do not flush with water as mechanical removal allows faster access to the surface.
- Like fresh concrete itself and other alkaline materials, SCP 578 may etch glass, shiny aluminum, and brass if left to dry on the surface. Simply remove while wet.
- If considering application of this product over precast concrete products, contact SCP before use as precast concrete products vary widely in porosity and construction.
- Application rates and methods differ when applying overhead and vertically. Contact SCP for additional information.

General Information:
For safe handling information on this product, see the Material Safety Data Sheet (MSDS).

Storage:
Product shall ideally be stored in a location that is dry and between 35° to 100° F (2° to 38° C), ambient temperature. Optimal storage is at the middle of the temperature range. 5-year shelf life under proper storage conditions.

Warranty:
See Spray-Lock Concrete Protection® limited warranty.

Technical Data:

Color: Cloudy white (dries clear)

VOC/VOS Content: 0.0 g/ml

Odor: None

Surface Bond Quality: 100% of Untreated Concrete

Specific Gravity: 1.10

Paintability: 100% of Untreated Concrete

pH: +/- 11.5

Clean-up Solvent: Water

Flammability: 0 (non-flammable)

Environmental Impact: None/Neutral

Toxicity: None

User Status: Friendly

Coverage* Guide SCP 578

140 - 180 ft² per 1 gallon

3.5 - 4.5 m² per 1 liter

* Coverage rates are a guide and figures may increase or decrease depending on the porosity of the concrete and spray technique.