



PRODUCT CHARACTERISTICS:

SCP 578 is a spray-applied, penetrating treatment for existing Portland cement concrete. Treatment benefits include: waterproofing, densification and surface hardening, resistance to salt and chemical attack, and freeze-thaw damage.

SCP 578 colloidal silica penetrates into concrete capillaries and pores, reacting with free alkali to primarily form additional Calcium Silicate Hydrate (C-S-H) within the concrete. This results in a permanently protected and waterproofed concrete matrix. The post-placement pozzolan enhances the resistance to contaminants that contribute to short- and long-term concrete deterioration.

SCP 578 does not change the surface characteristics of concrete substrates. Slabs can be accessed in as little as one hour after application. Coatings and coverings can typically be applied in as little as 7 days from application, providing concrete is at least 14 days old. The C-S-H formation ensures that capillaries are permanently constricted or blocked, turning the concrete surface into a suitable substrate that prevents pinholes in common surface coatings.

SCP technology has over 40 years of proven performance within the industry.

Learn more at www.concreteprotection.com

APPLICATION:

1. Use a low to medium pressure sprayer complete with an extension wand and fan tip spray size of 0.019-0.031 inches (0.48-0.79 mm). Hold wand and spray 6 inches (15 cm) from the surface of the substrate at a 90-degree angle. **IMPORTANT: MUST** spray in 50% overlapping pattern. This ensures that all areas receive two applications of product.
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.



If any area absorbs product within 15 minutes of application, the product will need to be reapplied until absorption occurs in no less 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 product with damp mop.
 - c) To prevent slip and fall hazards, close off treated area to foot traffic for at least one hour after application.
 - 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.
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."

NOTES:

- Curing membranes, wax, paint, or foreign deposits of any kind that restrict access to the concrete's internal pore structure must be mechanically removed for SCP 578 to penetrate properly (e.g., surface grinding, shot blasting, bush hammering, etc.).
- 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 the SCP Technical department before use as precast concrete products vary widely in porosity and construction.
- Application rates and methods differ when applying overhead and vertically. Contact the SCP Technical department for additional information.
- **DO NOT** apply on frozen substrate or when temperature is near freezing.
- **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 SCP.
- Joints, cracks, and penetrations should be addressed separately as part of the waterproofing plan.

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

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

Warranty: See Spray-Lock Concrete Protection Materials Warranty.

Color: Cloudy White (dries clear)

Odor: None

Specific Gravity: 1.10

pH: 11.5 +/-

Flammability: 0 (non-flammable)

VOC/VOS Content: 0.0 g/ml

Clean-up Solvent: Water

Environmental Impact: None/Neutral

User Status: Friendly

Coverage Rate: 150-190 ft² per gallon (3.7-4.7 m² per liter)

