



## Protect Your Concrete with SCP Products



**PERMEABILITY  
REDUCTION**



**SOLID  
DURABILITY**

# Challenges OF THE “new” 1L cements

Spray-Lock Concrete Protection (SCP) is your solution to reducing the permeability of concrete and extending its lifespan significantly while meeting your environmental goals.

### Background

ASTM C595 *Standard Specification for Blended Hydraulic Cements* details the properties required for 1L cements in addition to other blended cements and has been around a while. Europe and Canada have been using blended cements for years with a high level of success. What is new to the U.S. market, however, is that 1L cements have effectively replaced the traditional ASTM C150 Type I/II cements that we know well. This effort is primarily to better enable cement companies to meet their environmental goals. Fundamentally, the type 1L specification allows cement companies to replace up to 15% of the clinker with limestone.

### Feedback from the Field

Cement is produced regionally, so the challenges that arise in one geographic area may not translate to other areas of the country. The 1L cements are typically ground finer than traditional cements and can lead to higher water demand for a given slump. Higher water demand can lead to increased permeability to water and/or water vapor, and changes in setting characteristics. Reports from various parts of the country have indicated that these cements may not be as forgiving as Type I/II, requiring a more careful management of potential human error.

### How Can Spray-Lock Concrete Protection Help?

Increased concrete permeability can negatively impact the performance and timing of flooring, roofing, and coating systems. Our spray-applied and integral product lines can address these moisture-movement related issues. The increased permeability of your concrete can also dramatically decrease its service life.

**Our products can reduce the permeability of your concrete to the point that significant service life extensions can be realized.**

**Contact us today to learn more on how we can help with the new cements in your market!**