

## Single Seal and Freeze Protect

## Technical Data Sheet

### Clear Penetrating Sealer

*Liquid applied moisture control for cementitious and masonry surfaces*

#### FEATURES

\* Imparts water repellancy to a wide variety of substrates

#### BENEFITS

- \* Reduces water absorption into substrates, thus reducing spalling due to freeze thaw and efflorescence
- \* Colorless and non-yellowing protection preserves the natural appearance of the substrate
- \* Penetrating and breathable
- \* Low VOC
- \* Nonflammable

#### APPLICATIONS

- \* As a substrate treatment in applications that can utilize its ability to impart a water repellent surface and reduce water absorption
- \* For use on concrete, brick, pavers, stucco, ceramics, pre-cast, sandstone, and limestone.

#### TYPICAL PROPERTIES

Test	Unit	Value
Total Solids Content		
after 90 min at 150°C (302°F)	%	40-45
Silicone Solids Content	%	24
Specific Gravity at 25°C (77°F)		1.29
Flash Point, open cup	°C (°F)	>93.8 (200)
pH		13
Density	lb/gal (g/l)	10.8 (1290)
Solvent (thinner)		Water
VOC	lb/gal (g/l)	<0.417 (<50)

#### DESCRIPTION

**Single Seal and Freeze Protect** is a water based system utilizing potassium methyl siliconate (PMS) technology to impart water repellancy to a wide variety of surfaces. PMS is a reactive siliconate. When **Single Seal and Freeze Protect** is applied to a substrate, it chemically reacts with carbon dioxide (air) and with the natural salts and minerals used in the substrates formulation to create Calcium Silica Hydrate (CSH). This new structure has extremely strong bonds and is insoluble, forming a water-resistant treatment within 24 hours.

#### HOW TO USE

**Single Seal and Freeze Protect** can be sprayed, brushed, or rolled on. It can be used on substrates ranging from freshly poured (green) to those that are completely cured (existing). If using on freshly poured materials, make sure that all excess water has been removed (no puddling) and that the material is firm to the touch.

#### Application Tips/Precautions:

- 1) Do not over apply product. General Rule: "Soak but do not saturate". Over application can result in excess siliconate not being able to penetrate and leaving behind an unsightly white residue on the surface once dry. If this occurs, wash immediately with water as a first course of action.
- 2) Always do an on-site test on a small, inconspicuous area prior to commercialization to ensure that the substrate and **Single Seal and Freeze Protect** are compatible and suitable for your specific use.

- 3) When using product on cured (existing) concrete, lightly dampening the surface immediately prior to application often helps in getting more even penetration.
- 4) Do not apply **Single Seal and Freeze Protect** on surfaces that have been previously treated with another water repellent product without first testing compatibility.
- 5) If spraying **Single Seal and Freeze Protect**, be careful to protect nearby vegetation and other articles from overspray. This product is caustic and may cause irreversible damage to plants. It can stain and/or etch glass, plastic, aluminum, and other metals. If contact does occur, flush immediately with water.

#### **USABLE LIFE AND STORAGE**

When stored at or below 25°C in the original unopened containers, **Single Seal and Freeze Protect** has a usable life of 24 months from the date of production.

#### **PRODUCT SAFETY INFORMATION**

Product safety information required for safe use is not included in this document. Before handling, read product Safety Data Sheet (SDS) and container labels for safe use, physical, environmental, and health hazard information. Please contact your **Single Seal and Freeze Protect** sales representative for a copy of the Safety Data Sheet (SDS) for your records.