

# Calashield Durax Step 1

## Water-Based Siloxane Protective Sealer

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### PRODUCT DESCRIPTION

Calashield Durax Step 1 is a water-based sealer formulated with a polysiloxane emulsion and an emulsifying agent, specifically designed as a protective undercoat for concrete and masonry surfaces. It penetrates deep into the substrate to provide a durable barrier against water, oils, dirt, and surface contaminants.

Thanks to its hydrophobic components (silicones and silanes), Calashield Durax improves concrete resistance to freeze/thaw cycles, reduces efflorescence, and prevents premature scaling or cracking. Its preventive action helps extend the service life of surfaces while preserving their appearance.

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### USAGE

#### Surface Preparation

The surface must be free of dust, dirt, oil, grease, curing agents, other coatings, or efflorescence before application.

Concrete must be allowed to cure for at least 7 days prior to application. Any repairs must be completed at least 5 days before applying Calashield Durax Step 1.

#### Application

1. Apply a first even coat using a roller or applicator broom.
  2. Apply a second coat while the first is still wet to ensure full coverage.
  3. Do not leave puddles or excess product.
  4. Allow to dry completely before proceeding to Calashield Durax Step 2.
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### KEY BENEFITS

- Superior protection against water, oils, freeze/thaw cycles, and stains
- Reduces efflorescence and cracking
- Prevents mold and bacteria growth
- Easy application, water cleanup
- No strong odor, low VOC emissions
- Does not alter surface appearance
- High UV resistance and vapor permeability

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## APPROXIMATE COVERAGE

Calacrete Astra FS: 300–350 sq. ft. / gallon (3.78 L)

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## PHYSICAL PROPERTIES

Property	Value
Appearance	White opaque emulsion
Freeze/Thaw Stability	Yes
Solids (% by weight)	> 40
Thermal Stability	Yes
Mechanical Stability	Yes
Density (g/ml)	0.95
pH	8.0
Density (lbs/gallon)	7.9
Viscosity (Brookfield, cps)	12
VOC – g/L	61.2
Flash Point (°C)	> 100
VOC – lbs/gallon	0.51
Flash Point (°F)	> 212

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