

ENDURA Control

“The Finisher’s Friend”

PRODUCT DESCRIPTION

Silicrete Systems ENDURA Control is a non-film forming, low VOC, amorphous colloidal silica topical additive (EVAPORATION RETARDENT and FINISHING AID) that is applied during floating and troweling of freshly placed concrete to slow down moisture-loss, allowing proper hydration of cement that will extend workability and makes finishing concrete flatwork easier and faster under adverse conditions such as wind, sun, high temperatures or low humidity. ENDURA Control lubricates the surface, increases cream for a smoother finish making troweling easier and faster. Colloidal silica densifies and improves surface consolidation resulting in increased compressive strength, abrasion resistance, minimizes the potential for checking, crazing, dusting, stains and efflorescence on both standard and colored concrete.

PRIMARY APPLICATIONS

Concrete Floors - Polished Concrete
Driveways – Sidewalks
Interior or Exterior Concrete
Parking Garages - Decorative Concrete
Industrial Floor Slabs - Bridges and Roads
All Concrete Surfaces

Physical Properties

Color..... Blue
pH Level..... 6-9
Evaporation Rate..... > 1.0
Vapor Pressure..... > 2.2 torr @ 68° F (20°)
Density (water = 1)..... > 1.0 @ 68°F (20°C)
VOC Content < 50g/L

Specifications/Compliance

- ASTM E 96-10, ASTM C 944
- ASTM C 779
- ASTM C 1583
- USDA Compliant, FDA Approved

FEATURES/BENEFITS

- Water based low VOC content
- Simple, spray application
- Helps finishing in challenging weather conditions hot & cold, sunny, dry & windy
- Makes finishing concrete easier & faster
- Reduces operator fatigue
- Reduces wear on trowel pans and blades
- Extends workability of slab surface to achieve best possible finish
- Increases surface density and reduces permeability for resistance to liquid penetration, staining
- Minimizes dusting, checking, crazing, & scaling
- Reduces efflorescence
- Great for colored concrete
- Mitigates cold joints when applied to surface and edge profile
- Increased abrasion resistance and highly refined surface
- Decreases potential of alkali silica reaction(ASR)
- Reduces salt penetration
- Improves against freeze thaw damage
- Reduce labor and subcontractor requirements for polished concrete
- Obtain abrasion and wear characteristics compared to trap-rock or dry-shake hardeners when using Silicrete Systems 3 stage system

Coverage -See Application Instructions

- Apply at a rate of 1200sf/gal per application.
- For broomed finished concrete - 2 applications.
- For troweled finished concrete - 3 applications.

Packaging

- Bucket 5 gallons or 19 liters
- Drum 55 gallons or 209 liters
- Tote 275 gallons or 1022 liters

Storage Instructions

Do not break seal until product is ready for use. Maintain unused product in the original container. Do not allow **Silicrete Systems Endura Control** to freeze. Store in a well ventilated, cool, dry location and maintain temperatures between 40° – 100°F (4°– 38°C). This product has a shelf life of 18 months in its original unopened container

Endura Control is **Ready To Use** and requires no blending or dilution. Mild agitation is recommended before usage.

Application Instructions

Using a HIGH-VOLUME, LOW-PRESSURE, manual or commercial grade sprayer or pump up sprayer capable of spraying a fine mist, spray a thin coating of product uniformly onto the slab surface in three equal applications at a rate of 1,200 sq ft per gallon. The first application should be applied directly after the screed and before bull floating. The second application should be just before the first panning. The third application should be just before the second panning. Do not finish past a smoked or fuzzy finish. After completing applications and finishing by burning/burnishing the floor to the desired level

1) *Following industry best practice/procedures to begin float process as you would on a standard pour.*

2) *Float shoes may be used on walk-behind trowels, but are not recommended for ride-on trowels.*

3) *Using lowest pitch possible (Pitching the blades too high will cut/damage the surface of the floor)*

Clean-Up

Clean sprayers with warm, soapy water following use.

Precautions / Limitations

- Incompatible with strong oxidizers and strong acids
- The Silicrete Systems process requires three separate products for best results.
- Do not allow the product to freeze. Store between 40° – 100°F (4°– 38°C)
- Do not dilute or blend with other products.
- Consult MSDS before use.
- Over application will retard the set of the concrete

Important Note: Endura Control is designed to be floated or troweled into the concrete surface

