

BC Series

regular and fine grade cement-based microcements



Description

Develine BC Series Microcements bring powdered cement-based convenience to large-scale professional installations. Available in both regular and fine grades, it's mixed with water on-site to your exact consistency. This cementitious system gives contractors flexibility across floor and wall applications where a more textured finish or added build is desired. It functions equally well as a standalone finish or as a base coat beneath other Develine products, offering versatility across project types. Engineered for professional use, BC Regular bonds strongly to prepared substrates and delivers the monolithic aesthetic that defines the look and finish of contemporary microcements.

Advantages

- › Specialty polymers promote excellent bond to the existing substrate
- › Self curing, no additional curing methods needed
- › Versatile - allowing for decorative trowel and broom finishes
- › Freeze/Thaw stable
- › Compatible with most sealers, dyes and stains
- › Compatible with stencil applications
- › Provides a slip-resistant surface

Recommended Applications

- › Resurfacing damaged and discolored concrete surfaces
- › Resurface hard surfaces like ceramic or porcelain tiles after proper surface preparation
- › Resurface driveways, patios, garages, sidewalks, pool decks, porches

Application

Substrate Requirements

- › Surface must be solid, completely clean, free of oil, wax, grease, sealers, curing compounds, asphalt, paint, dirt, loose surface material and any contaminants that will act as a bond breaker.
- › Weak concrete surfaces must be cleaned down to solid sound concrete by mechanical means such as scarifying or high pressure washing and exhibit a profile of CSP 2 or greater.
- › Concrete substrate and ambient temperatures must be between 50°F and 95°F. Temperatures must be maintained within this range for at least 8 hours after the installation of Develine BC Series.
- › Moving joints such as expansion joints must be clean and reflected through the microcement. Larger moving cracks must be repaired with a cement based patching compound. Repaired areas must be set firmly prior to applying the microcement. Crack repairs should be allowed to cure and set completely prior to resurfacing. It is possible that the existing cracks, particularly those that move even when

repaired, may mirror through the thin layer of microcement.

Priming

- › Prime all the surfaces with Develine Aqua Primer. It must be applied over entire substrate at a temperature of at least at 50°F
- › Apply with a garden sprayer, and then spread with a broom or 3/8" nap roller to assist complete coverage and penetration. Once the milky look has completely disappeared the surface is ready for RQ Microcement application.
- › Installing a microcement before the primer coat is dry-to-touch may result in bleed and varying white marks on the finished surface.

NOTE: For extremely porous surface two coats of primer may be needed. The second coat should be applied with a roller after the first coat is completely dry. An incorrectly primed surface may result in pinholes in the Develine RQ Series Microcements.

Mixing

Mix BC Microcements with 2.50 to 3.50 liters of water as per the desired consistency

Installation

- › BC Microcements should only be applied to a properly prepared substrate. Remove any material that interferes with bond including dust and dirt by brooming and vacuuming, including expansion joints. The expansion joints should be marked to prevent being filled by the microcement.
- › Pour the mixed microcement onto the primed substrate and spread with a squeegee, or flat trowel using enough pressure to ensure good contact with the entire surface.
- › On vertical installations, such as stairs, trowel BC Microcements directly onto the properly prepared distressed area and finish as desired.
- › Develine BC Microcement must be applied at a thickness of 1–2mm per coat. Multiple coats can be applied to increase the thickness or even out the surfaces.

Curing

- › Develine BC Microcements are self-curing; do not use a damp curing method.
- › Do not allow the product to freeze or be exposed to rain if such should occur within 24 hours of placement.
- › BC Microcements can be sealed with compatible water based sealers after having cured for at least 24 hours at 70°F.

Staining

Allow the BC Microcement to dry completely before applying a stain (AquaColor or Dye). Always test prior to use.

Coloring

Develine BC Regular and Fine can be integrally colored with AquaColor or stained with Water based stains. We recommend producing samples to ascertain the desired color and finish.

Clean Up

Clean skin with soap and water. Tools and equipment should be cleaned with Acetone or Lacquer thinner. Consult MSDS for safety and health precautions.

Coverage

1.0kg / m² (150 – 175ft² / pail)

The coverage mentioned here is in laboratory conditions. Actual coverage may vary depending on the site conditions and the person applying the product

Support

For installation instructions specific to your project, please contact your Duraamen representative.

Technical Data

Weight	15kg
Mix Ratio	2.5 to 3.5L of water per pail of Develine BC Series Microcement
Working Time	20 min. @ 70°F
Initial Set	60 min. @ 70°F
Final Set	120 min. @ 70°F
Compressive Strength (ASTM C 109)	
1 Day	2400psi
7 Days	3600psi
28 days	5000psi
Shelf Life	12 months when stored in cool and dry conditions.
Foot Traffic	12 to 24 hours (depending on temp & relative humidity)
Wheel Traffic	24 hours minimum
Application Temp	50°F to 85°F
Flexural Strength	800psi

Develine Products are sold globally from three locations in the United States and 1 location in the UAE by Duraamen Engineered Products, Inc. Contact a Duraamen representative in your area for details.

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