

# RQ Series

regular, fine and superfine grade microcements



DEVELINE

## Description

Develine RQ Series are ready-to-use, resin-based microcements available in three distinct grades: Regular, Fine, and Superfine.

RQ Microcements are used on horizontal and vertical surfaces, and are perfect for interior surfaces while being robust enough for exterior surfaces. They can be applied as thin as 1-2mm per coat, and provide a fast solution for integrally coloring and resurfacing interior or exterior concrete.

RQ Microcements have been designed to accept powder or liquid pigments, and can be applied over concrete, tiles, plywood or any hardwearing surface.

## Advantages

- › Superior bond to various types of substrates
- › Superior abrasion resistance
- › High compressive strength
- › Designed to be burnished
- › Excellent freeze-thaw stability

## Substrate Requirements

- › Clean the areas and remove all unsound concrete, grease, oil, paint, asphalt, tar and any other foreign materials that will inhibit performance.
- › Substrates must be stable, solid and structurally sound.
- › Substrate must be mechanically profiled by shot-blasting, sand blasting or scarifying to achieve a CSP 3.
- › For applications over cutback adhesive residue, wood surfaces, non-porous substrates such as terrazzo, ceramic and quarry tile, burnished concrete, epoxy coatings, painted surfaces and metal, please contact Duraamen's technical staff.
- › Movable expansion or control joints must be reflected through the microcement.
- › Prior to priming allow surface to dry thoroughly to prevent dilution of the primer.
- › On or below grade installation must have an efficient vapor barrier under the slab (min 10-15 mil).
- › Moisture vapor transmission must be less than 3lb per ASTM F1869 and less than 80% RH per ASTM F2170 unless Duraamen moisture mitigation system is used.

NOTE: When removing existing flooring, any asbestos containing materials should be handled and disposed of in accordance with applicable federal, state and local regulations.

## Installation Steps

NOTE: Develine RQ is usually applied over Develine BC Regular or Self-leveling concrete depending on the substrate condition.

### 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.

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 microcement.

### Installation

- › Open the pail and mix the contents thoroughly for the sake of consistency.
- › Add Aquacolor to achieve the desired color as per the approved samples.
- › Develine RQ Series Microcements are applied in two thin coats using a magic trowel or steel trowel. Contractors should perfect their finishing techniques to produce the desired surface.

### Installation Tips

- › Trowel with a Steel trowel or Magix trowel to achieve the desired look and finish as you go. Keep a wet edge and blend from one area to the next, avoid leaving hard lines.
- › Ensure a random pattern by rotating and varying your troweling action. Gently break up any lines or repeating patterns.
- › When applying multiple coats, allow each coat to dry, and then repeat the application. The drying time between coats depends on the ambient temperature; normally a minimum of two hours or once the surface has an even dried colored appearance. Mist with a light application of Develine Aqua Primer to dampen surface if second coat is applied next day.
- › Curing will depend on the ambient temperature and weather conditions. During the summer months Develine RQ Series Microcements is ready for light foot traffic in 12 hours after the second coat has been sealed. Heavy traffic may require up to 2 days curing depending on temperature.

### Sealing

After 24 hours at 70°F, Develine RQ is ready to be sealed with Develine Aqua 2K Matt Varnish. Typically, two coats of Varnish are recommended.

### Limitations

Do not install RQ Series Microcements at temperatures below 50°F or if temperature is expected to drop below 50°F within the following 24 hours. Excessive addition of Develine Aqua Primer in Develine RQ Series Microcements will cause white bleed marks in the final floor surface. Objects placed and left on the surface for more than 2 days could cause a ghosting effect

### Clean Up

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

### Coverage

Develine RQ Series Microcements (regular, fine and superfine)

1.0kg per m<sup>2</sup> (100ft<sup>2</sup> per pail)

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

## Maintenance

After completing the installation, the applicator should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. Properly sealed RQ Microcement is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Treating the surface with a floor finish (Smartgard) is optional. Long periods of heavy traffic may cause wear patterns necessitating application of a finish coat.

## Support

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

## Technical Data

Coverage	1.0kg per m <sup>2</sup> (100ft <sup>2</sup> per pail)
Flammability (ASTM E84) Flame Spread Fuel Contribution Smoke Development	0 0 0
Compressive Strength (ASTM C 109) 28 days	4200psi
Shelf life	6 months

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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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