



Polygiene®

Product Data Sheet | Flowfresh FC

Product Description

Flowfresh FC is a pigmented, high performance, antimicrobial treated cementitious urethane floor sealer.

Uses

Flowfresh FC is designed for use as a pigmented, urethane cement floor sealer, applied as a lock coat sealer to any Flowfresh cement overlays that may be fully broadcast with aggregate. Flowfresh FC is not recommended for use as a thin, smooth sealer coating for smooth substrates. Refer to FlowResin's Chemical Resistant Guide or consult Technical Service when selecting for a particular application.

Ratio of Components

Unit: 5 gal.

Full Units (Base A : Hardener B : Filler C + Pigment Pack). Do not split the components.

- Pour Base A and Pigment Pack into mixing container. Begin mixing using a drill with a helical paddle to disperse all components, taking care not to entrain air. Mix these components for 20 seconds or until all powder is well dispersed.
- Add Filler C and mix for 1 minute, ensuring all filler has been fully dispersed. This will require scraping powders from the sides of the mixing pail and remixing until lump free.
- Finally add Hardener B and mix for 30 seconds.
- **NOTE:** Hardener B and Filler C must be stored in a dry environment, otherwise clumping of Filler C is possible and a reduction of active powder content may occur (this can produce carbon dioxide gassing pin holes in the cured finish). Do not re-seal any Hardener B containers that have been contaminated with moisture.

Application Rate

Flowfresh FC should be applied evenly in consistent layer thickness.

To achieve optimum performance, FlowResin recommends installing at: Approx. 120 sq ft per unit as a lock coat for broadcast floors with aggregate.

Spread using a soft rubber squeegee and then back roll using a 3/8" nap roller, quickly followed up with cross roll using a 1/4" nap roller. FlowResin does not recommend applying Flowfresh FC thinner than 10 mils or thicker than 30 mils.

Coverage listed is theoretical, actual coverages may vary based on substrate and site variations.

Application Temperature

The recommended substrate temperature is 60°F -80°F, but no less than 50°F.

The temperature of the substrate should exceed the "dew point" by 3°F during application and hardening. Temperatures should not fall below 40°F in the 24 hours after application.

Application Time/Pot Life

At 70°F, ready-mixed product should be used within 20 minutes.

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Application Time/Pot Life is shortened at higher temperatures and humidity levels.

Curing Time (70°F, 50% RH)

Tack free after 8 hours. Can be walked in and recoated after 8 hours. Maximum recoat time 24 hours. The product is fully hardened after 5-7 days. Ambient humidity should not exceed 85% RH during application and cure. High humidity in the early stages of curing can result in amine blushing and extended dry times. Do not cover or wash within the first 24 hours of curing.

Color

Cream, Tan, Khaki, Red, Black, Common Grey, Dark Grey, Green, Blue and Safety Yellow

Pigmented with 1 Standard Pigment Pack per every Full Unit. Also available pre-pigmented with a 100-gallon order quantity (minimum). If ordering pre-pigmented, allow additional leadtime for order. Custom corporate colors and designs can be produced but require minimum order quantities and extra lead times.

Reference FlowResin's Technical Data Sheets and Color Chart for more information.

Solids Content

>98% (by volume)

Finish

Matte

VOC

<10 g/l

Density

Component A approx. 1.00 kg/l (8.35 lbs/gallon)
Component B approx. 1.22 kg/l (10.21 lbs/gallon)
A+B approx. 1.11 kg/l (9.28 lbs/gallon)

Storage

6 months in unopened pack. Storage temperature 50°F-90°F. Protect from weather and moisture/contaminant ingress.

Packaging

The product is delivered A+B+C+Pigment Pack in the following kit:

Unit	Base 2.2	Hardener B	Filler C	Pigment Pack
Gallons	5.0 lbs	5.0 lbs	5.94 lbs	1 lb

Physical Properties

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Property	Result	Test Method
Compressive Strength	7,000 psi	ASTM D579
Flexural Strength	1,200 psi	ASTM C580
Tensile Strength	1,500 psi	ASTM C307

Environment & Health

Flowfresh FC is a nonylphenol free product; it is practically odorless during application. Follow the appropriate Occupational Health and Safety Guidelines applicable to the location where the application is undertaken. For more information, please refer to FlowResin's Safety Datasheets for the individual components.

Further Information

If you would like additional information, please consult our Technical Advisory Team at the number listed below or visit our website to register your interest in specifying a FlowResin flooring system.

Disclaimer: Any recommendation or suggestion relating to the use of the products made by Key Resin Company, whether in its technical literature, or in response to a specific enquiry, or otherwise, is based upon data believed to be reliable, however the products and information are intended for use by Customers having requisite skill and know-how in the industry and therefore it is for the Customer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that the Customer has done so at its sole discretion and risk.