FLOR-FILL™ (RSG)

Reactive Surface Grout & Pin Hole Filler

Technical Information Sheet

Product Description

FLOR-FILL™(RSG) is a cutting edge material that fills pin holes and other small voids in the concrete substrate during the grinding process. Designed to work with the PC-5614 Topping it also works well on polished concrete surfaces. This unique formulation combines our silicate technology to chemically react with the dust to produce a harder more dense surface. Filling the pin holes contributes greatly to surface refinement and increased gloss levels.

Limitations

Do not use acidic or citrus based cleaners while maintaining any surface treated with **FLOR-FILL™**. The MVER or moisture tolerance shall comply with the system used for the project application. The application temperature should be between 40-90 degrees F. (5-32 C). Dillute 2:1 with water before use.

Coverage Rate

One gallon of **FLOR-FILL™** mixed will cover 300 FT^2. Coverage will vary depending on the substrate and the amount of voids present in the surface.

Equipment

Requires the use of a planetary grinder fitted with diamond tooling. A low pressure pump type sprayer for material application. No dust extractor is required during the application.

Surface Preparation

The surface should ground to the proper step before the application. On the PC-5614 Topping the **FLOR-FILL™** should be applied after the 50 grit Ceramic diamond has been run and the surface has been cleaned. On concrete the **FLOR-FILL™** should be applied after the last metal bonded step has been completed and the surface has been cleaned.

Mixing

The material is mixed with water at the ratio of 2:1 before use. Fill a sprayer or container with two gallons of clean water and then add 1 gallon of the **FLOR-FILL™** to the container. Shake or stir the container for 30 seconds until completely mixed. The material may be used immediately.

Packaging and Shelf Life

The **FLOR-FILL™** is available in 5 gallon pails. The shelf life when properly stored indoors is 1 year from manufacturer date.

Safety

See Material Safety Data Sheet (MSDS). This document does not purport to address all of the safety concerns, if any, associated with its use. Dispose of any unused materials in accordance with Federal, State and Local regulations. The use of safety glasses and gloves is recommended. This material is an alkaline solution and may cause minor skin irritation. Keep out of the reach of children. Silica sand is a carcinogenic and is known to cause cancer. This material is for professional use only.

Application

The application temperature range should be between 40-90 degrees F. (5-32 C).

PC-5614 Application:
Prepare the surface by opening with a 50 grit Ceramic diamond. Clean the surface completely. Install the 100 grit Ceramic diamonds to the grinder and position at one edge of the slab. Spray apply the material to the surface using a low pressure pump type sprayer at the rate of 300 FT^2 per gallon. Follow immediately with the planetary grinder between 550-650 RPM. The dust from the machine will mix with the material on the surface forming a grout that will fill pin holes and small voids in the surface. Avoid leaving heavy deposits of grout between the rows by swinging the grinder side to side slowly. Any excess or heavy deposits may be cleaned up right away using a smooth edge tool or dust pan. Allow the material to dry completely until there are no dark spots or color variations on the surface. This will take between 1-3 hours depending on the conditions and temperature.

Concrete Application:
The concrete application will follow the same steps as the PC-5614. The only difference will be the diamond tooling step where the material is applied. Refer to the **ULTRAFLOR®** specification for your project. In most cases the material should be applied between the last 2 metal bonded diamond passes. Depending on the required finish the material may be applied after the last metal bonded pass has been completed using the 100 grit Ceramic diamond.

Dry Time and Polishing

Allow the **FLOR-FILL™** to dry for a minimum of 1 hour before continuing. In some cases depending on the ambient conditions the material may take up to 3 hours to dry completely. Attempting to polish before the surface has dried completely will result in dark areas and discoloration on the surface. Any residue or dust on the bottom of the grinder must be removed before the next step. Any excess material or residue that falls from the shroud during the next pass will scratch the surface possibly removing material from the voids. Scratches caused by debris will be deeper than a diamond tooling scratch creating unacceptable surface defects. Follow your specified steps to complete the polishing process. The surface should be densified after the 200 grit resin pass. The normal process should continue after the densifier has dried.

HMIS
VOC 0
Health 1
Flammability 0
Reactivity 0
NFPA: Health 1

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