

Flor-Finish® High Gloss Protection Application Steps and Tips

A product of Diamatic and Diamatic Management Services

KEEP FROM FREEZING.

See PDS directions and MSDS for complete usage and safety instructions.

COVERAGE RATE

2,500 sq. ft. per gallon (62 m² per liter)

APPLICATION INSTRUCTIONS

Utilize **Ultra-Flor**® concrete polishing specification to achieve a polished concrete surface.

1. Micro polish the floor with a **Flor-Grit**® Pad.
2. Mix, shake or stir product thoroughly before applying; without creating bubbles.
3. Choose from 12 - 24" microfiber application pads. Pad selection based on:
 - Size of application area
 - Applicator's relative comfort level with application system
4. Apply **Flor-Finish**® High Gloss, Stain and Wear Protection Finish using a clean, pre-dampened micro-fiber pad and applicator. Apply at a rate of 2,500 sq. ft. per gallon depending on the surface profile, spreading material thinly and evenly so as to completely cover the substrate. We recommend coating no larger than 20 x 20' sections at a time. Maintain a "wet edge" when mopping product to prevent the possibility of marking after product curing.
5. Allow to dry for 25 minutes. (Micro polish the coating immediately after dry time.)
6. Micro polish with a Diamatic Micro Polisher and **Flor-Grit**® Pad according to the Ultra-Flor® specification. Micro polishing individual coats of **Flor-Finish**® is the recommended procedure to improve curing process and overall shine. For coating applications 2 and 3, micro polish utilizing a **Flor-Grit**®3 Pad.
7. Repeat steps 4 - 6 up to 3 times to reach the desired gloss level. Repeated applications build a stain resistant microfilm over the substrate. Do not over apply. It is critical to apply very thin multiple coats. If applied too thickly it will cure improperly and discolor, whiten, or leave streaks and/or applicator marks.
8. DO NOT clean or scrub the surface for at least 72 hours. Clean up any accidental spills immediately.
9. **IMPORTANT:** Avoid moisture for 72 Hours. Do not allow standing water for 14 days. Do not place protective plastic sheeting, rubber matting, rugs or furniture that can prevent proper drying. Covering the surface can retard curing and result in a cloudy or whitening effect.
 - a. Light pedestrian use within 30 - 60 minutes, vehicle traffic in 2 hours.
 - b. Maximum performance may take up to 14 days to develop, depending on temperature and humidity.
 - c. Finish will reflect images from side and overhead lighting. The high gloss finish will look wet and show mirror-like reflections of side and overhead images.
10. For faster curing time of 1-2 Days, of the **Flor-Finish**®, apply **Flor-Accel**® Curetime Accelerator to the surface after step 7. Refer to Application pages of **Flor-Accel**® for detailed directions.

PROTECTION

- A. Do not allow standing water or puddles of water to be left on the surface. (Immediately wipe up any spills and or water.)
- B. Do not clean or scrub the surface for 72 hours (no moisture contact) to prevent the possibility of “whitening” or discoloration.
- C. Do not use protective sheeting (plastic) or other barrier sheeting to protect the surface from construction debris while the coating is curing.

CLEAN UP

Use water to clean tools and equipment. Treatment is environmentally friendly and requires no special or hazardous disposal methods.

PROFESIONAL USE ONLY

Must be applied by **Diamatic Management Services (DMS)** trained or certified contractors and/or licensed field service specialists.

HEALTH AND SAFETY PRECAUTIONS

Flor-Finish® High Gloss, Stain and Wear Protection Finish is an aqueous lithium silicate solution that uses proprietary compounds. The treatment is alkaline and may cause eye and skin irritation. **KEEP OUT OF THE REACH OF CHILDREN.** Do not take internally. Avoid prolonged contact with skin. Avoid ingestion of material. If swallowed, do not induce vomiting – Call physician. Avoid contact with eyes. Protective clothing is recommended. Protective goggles are recommended in case of splashing. If splashed in eyes, wash immediately with clean water and call physician if irritation persists. Contact areas should be thoroughly washed with soap and water. Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet. **Flor-Finish**® will bond to most surfaces - immediately wash off overspray with water and mild detergent. **CAUTION:** Surfaces wet with **Flor-Finish**® may be slippery.

Warranty

This instruction is condensed and should not be considered complete. User assumes all risks and liability whatsoever in connection therein. Neither seller nor manufacturer shall be liable for any injury or inability to use this product.

PHYSICAL PROPERTIES

- Milky white, aqueous solution
- Total Solids 23%
- Active Ingredients: 100% of total solids
- Specific Gravity: 1.09
- PH 11.5
- Flash Point: None
- V.O.C. Content Less than 50 gms/L
- Freeze point 32°F(0°)
- Abrasion Resistance excellent
- Depth of Surface Penetration 2-8mm
- Shelf Life 6 months in factory sealed container

STAIN RESISTANCE

Smooth-troweled concrete treated with Flor-Guard and Flor-Finish products was tested for stain resistance from various substances. These compounds were checked at regular intervals up to 24 hours to determine the amount of penetration/staining after cleaning with a non-abrasive, neutral pH cleaner. After cleaning, the stain was evaluated according to the following scale with 0 indicating no change in the appearance of the stain and 10 indicating the stain was completely removed.

- 0 = No change in stain, very visible
5 = Stain lighter, but still very visible
10 = Stain completely removed, no visible signs remaining

	30 Minutes	1 Hour	1.5 Hours	24 hours
Balsamic Vinegar	10	10	8	8
Red Wine	10	10	9	9
Motor Oil	10	10	10	10
Transmission Fluid	10	10	10	10
Skydrol	10	10	10	6

CHEMICAL RESISTANCE

Flor-Guard and Flor-Finish treatment provides enhanced chemical resistance to most products that could come into contact with the floor. Flor-Sil lithium densifier applied to the floor during installation will increase the chemical resistance. It is important to clean up all spills as soon as possible to prevent deep penetration into the product.

FINAL RESULTS

Light pedestrian use within 30-60 minutes, vehicle traffic in 2 hours.

Maximum performance may take up to 14 days to develop, depending on temperature and humidity. Do not allow standing water or puddles of water to be left on the surface. (Immediately wipe up any spills and or water. It is highly recommended not to clean or scrub the surface for a 7 day period to prevent the possibility of "whitening" or discoloration.

Proper application is the responsibility of the user. Field visits by Diamatic Management Services personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Floor is ready for traffic and use when dry. Typical drying time is 1-2 hours.

For optimal hardening and performance results we recommend that you do not sand or polish the surface. Treated surfaces will exhibit a slight satin sheen and reduced water absorption. Maximum strength and stain resistance will develop over 7 days. Sand or polishing will only wear down the protective surface and is not recommended for industrial applications. If an immediate, glossy finish (polished look) is desired for light industrial applications or commercial retail, we recommend the Diamatic UltraFlor Specification Procedure for installation. Contact your Diamatic for details on education and certification seminars.