



PRODUCT NAME

RetroPlate 99

MANUFACTURER

Advanced Floor Products
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PRODUCT DESCRIPTION

RetroPlate 99 is a chemically reactive concrete stabilizer which enhances concrete density and hardness, allowing the concrete to be finished to a high cosmetic, marble like sheen. It is used in conjunction with the RetroPlate® Concrete Polishing System for select floors in which:

- The floor is deteriorating and dusting.
- The concrete surface is dull, rough, pitted or raw looking.
- Overlays, toppings or expensive recoating is required.
- A marble like, hard shell, maintenance free finish is desired.

In addition to bare concrete, RetroPlate 99 works successfully with integral color, acid stains, dyes, dry shake hardener and cementitious terrazzo.

RetroPlate 99 and the RetroPlate® Concrete Polishing System, provides a functional solution to floor problems, as well as being architecturally and design ambitious. Colored aggregate, recycled glass, and other decorative material can be added into the surface to be exposed during the grinding process. The unique ability of the RetroPlate® System to combine the architectural, artistic nature of design with the function and permanence of the best hardener in the business allows for unlimited possibilities for floor design.

Treatment Results

In combination with the RetroPlate® Concrete Polishing System, RetroPlate 99 allows for a selection of three floor finishes:

- Level 1 Hard-Shell, Satin finish (400 grit)
Level 2 Hard-Shell, Medium Sheen finish (800 grit)
Level 3 Light Reflective Mirror finish (1800 grit)

Each level provides an extremely pleasing, durable, water repellant, dustproofed, marble-like surface. Over time, RetroPlate 99 also increases in penetration resistance. RetroPlate 99 provides a hardened, durable, and dense concrete surface when applied after smoothing and honing of the rough, pitted concrete or removal of soft, carbonated concrete surfaces prior to Level 1, 2, or 3 finishing.

Different levels of grinding can be light to heavy depending on the desired level of exposed aggregate:

- | | |
|------------------------|-----------------------------------|
| <i>Cream</i> | No exposed aggregate. |
| <i>Salt and Pepper</i> | Exposed sand and small aggregate. |
| <i>Heavy Aggregate</i> | ¼ - ½" exposed aggregate. |

Treatable Materials

Concrete floor surfaces (both old and new), cementitious terrazzo and cementitious overlayers.

Qualifications:

RetroPlate 99 must be applied to structurally sound concrete surfaces. Soft, carbonated or structurally unsound concrete surfaces must be removed so that RetroPlate 99 can react with a stable substrate. All restrictive coatings must be removed to allow RetroPlate 99 to fully penetrate the concrete surface.

RetroPlate 99 should not be applied when freezing conditions may occur.

TECHNICAL DATA

Applicable Standards

1. Abrasion: ASTM C779 - up to 400% increase in abrasion resistance, depending on concrete quality.
2. Hardness: ASTM C805 - 21% increase in impact resistance.
3. Weathering: ASTM G23-81 no adverse effect to ultraviolet light or water spray.
4. Light Reflectivity: 30% increase in reflectivity.
5. Skidability Static: Coefficient of Friction ASTM 1028 - independent testing has shown that RetroPlate® can exceed OSHA and ADA recommendations for wet and dry hard surfaces.

Packaging

5 Gallon Pails (19L)
55 Gallon Drums (208L)

Coverage

200 ft²/gallon (5m²/liter). Coverage depends on the porosity and state of the concrete.

Storage Life

One year. Agitate before using.

Thinners

None required. Use as packaged.

Duration of Effectiveness

Permanent.

Internal Composition

Non-flammable, water-based, non-toxic. Meets USDS and VOC compliance.

AVAILABILITY AND INSTALLATION

RetroPlate 99 is installed by a network of factory approved applicators as part of the RetroPlate® Concrete Polishing System. Contact your Advanced Floor Products representative for a list of approved applicators in your area.

TECHNICAL SERVICES

Contact Advanced Floor Products at (801) 812-3420 or toll free at 888-342-3144.

For industrial use only. Must be applied by a qualified applicator. Contact Advanced Floor Products for specific application directions.