



## Product Description & Benefits

RetroPlate 99 is a chemically reactive liquid which **enhances concrete density and hardness**, allowing concrete surfaces to be polished to a high, marble like sheen. In conjunction with diamond tools and machinery, and the process of grinding and polishing concrete, it is known as the RetroPlate Concrete Polishing System.

The RetroPlate System began as a way of removing old, worn out coatings. But owners, facility managers and architects soon realized its potential for new concrete floors and quickly began to specify it. The results were durable, beautifully polished floors void of typical coating pitfalls.

By chemically treating concrete surfaces and polishing the bare concrete, the RetroPlate System creates a **highly abrasion resistant, dustproofed, polished and aesthetically pleasing floor** that is very **easy to clean and maintain**.

The RetroPlate System can be used in conjunction with acid staining, shake-on hardeners, integral color and cementitious terrazzo. Colored aggregate, recycled glass and other decorative material can be embedded into the concrete surface, later to be exposed during the grinding process.

A desire to help owners, facility managers and architects find a permanent solution to floor coating problems created the RetroPlate Concrete Polishing System, a state-of-the-art flooring alternative that is **limitless in its design potential** and **unmatched in durability and performance**.

## AGGREGATE EXPOSURE CHARTS

<b>Cream</b>	Little aggregate exposure
<b>Fine (Salt &amp; Pepper)</b>	Fine aggregate exposure
<b>Medium</b>	Medium aggregate exposure
<b>Large</b>	Large aggregate exposure

## FINISHED GLOSS CHART

<b>Level 1</b>	<b>Flat</b> (Below 100 grit) <i>None to very slight diffused reflection</i>
<b>Level 2</b>	<b>Satin</b> (100 - 400 grit) <i>Matte; with or without slight diffused reflection</i>
<b>Level 3</b>	<b>Semi-Polished</b> (800 grit +) <i>Objects being reflected are not quite sharp and crisp but can be easily identified</i>
<b>Level 4</b>	<b>Highly-Polished</b> (800 grit +) <i>Objects being reflected are sharp and crisp as would be seen in a mirror-like reflection</i>

## Technical Data +

<b>Coverage Area:</b>	200 ft <sup>2</sup> /gal (5 m <sup>2</sup> /L) <i>Depends on porosity and state of concrete</i>
<b>Form &amp; Odor:</b>	Clear, colorless liquid; odorless
<b>pH:</b>	11.3 - 11.6
<b>Thinners:</b>	None <i>Use as packaged</i>
<b>Duration of Effectiveness:</b>	Permanent
<b>Internal Comp:</b>	Non-flammable, water-based, non-toxic <i>Meets USDA and VOC compliance</i>
<b>Storage Life:</b>	Indefinite <i>Agitate before use if product is more than 1 year old.</i>
<b>Packaging:</b>	1 gal (3.79 L) Samples 5 gal (19 L) Pails 55 gal (208 L) Drums

## APPLICABLE STANDARDS

**ABRASION** - ASTM C779 - Up to 400% increase in abrasion resistance, depending on concrete quality.

**HARDNESS** - ASTM C805 - 21% increase in impact resistance.

**WEATHERING** - ASTM G23-81 - No adverse effect to ultraviolet light or water spray.

**LIGHT REFLECTIVITY** - 30% increase in reflectivity.

**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.



## Considerations

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, 3 or 4 finishing. Over time, RetroPlate 99 increases in penetration resistance.

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.



## Availability & 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 by calling toll free **888.942.3144** or **801.812.3420**.



## Technical Info & Safety Data Sheet (SDS)

Contact Advanced Floor Products at **801.812.3420**, toll free at **888.942.3144**, or by email at **technical@retroplatesystem.com**.

For emergencies call **800.633.8253** or **801.629.0667**.



Please scan the code  
for this product's Safety  
Data Sheet (SDS).



## Industries Served

RetroPlate has become a hallmark of excellence, durability and beauty in a number of industries and facilities including, but not limited to:

Arenas  
Automotive  
Building Exteriors  
Commercial

Government  
Medical  
Museums  
Office

Residential  
Restaurants  
Retail  
Schools

Sports &  
Recreation  
Transportation  
Universities

### MUSEUMS



### RETAIL



### OFFICES



### SCHOOLS

