Taking Floors to the Next Level

RETROPLATE.COM  801.812.3420 / 888.942.3144
RetroPlate 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 Process

1. **Grind**

Grind the floor with industrial strength diamonds to remove imperfections such as travel marks or scratches, and expose bare concrete by removing existing coatings or mastics. Grinding can be light to heavy depending on the desired level of exposed aggregate.

*Classifications according to Concrete Polishing Council’s (CPC) Polished Concrete Aggregate Exposure Chart.

2. **Color**

Add style and personality to your polished concrete floors with an array of color options. Achieve any look and style with full color floors, custom logos or unique patterns.

Color options for polished concrete include: integral color, dry shake and topical dyes and stains.

3. **Densify**

RetroPlate penetrates the concrete and chemically reacts to harden and densify the floor by filling pores and creating a denser surface. Many densifiers on the market claim to work for polished concrete, but RetroPlate has been specifically formulated to allow the concrete surface to be polished to a marble-like sheen.

*DOI - Distinctness-of-Image. The DOI Image Clarity Value, range from 0 to 100 with a value of 100 representing perfect DOI (image clarity).

**Microscopic view: porous structure of non-densified concrete surface and filled-in pores of densified concrete surface.

4. **Polish**

Polish the floor with progressively finer diamond grits to achieve the level of shine and reflection desired. Polished concrete floors can be polished from a flat, matte appearance, to a highly polished, glossy finish.

*Classifications according to Concrete Polishing Council’s (CPC) Polished Concrete Appearance Chart.

**Microscopic view: microscopic comparison of non-densified and densified surfaces.**
See how our “One Complete System” of concrete floor products works together to enhance the performance of your concrete floors.

ONE COMPLETE SYSTEM
FOR ALL YOUR DENSIFIED AND DENSIFIED-POLISHED CONCRETE FLOORING NEEDS

These products are designed to work as a complete system to enhance the performance of your concrete floors.

PREPARE

Remove existing floor coverings and/or coatings chemically or by grinding the concrete surface until all residue has been adequately removed.

GRINDING ACCELERANT: CRETE STRIP

CHEMICAL STRIPPER: CRETE CLEANER

STYLE & DESIGN

Unlock your concrete floor’s unlimited design potential through diamond grinding and honing, and colorful dyes.

GRINDING, HONING & COLOR: DIAMONDS & RETRO DYE

FILL & REPAIR

Properly filling and repairing concrete joints, cracks, and spalls, increases the aesthetic appeal of your densified-polished concrete floor, and ensures optimum floor performance for the life of your floor. Multiple colors are available.

JOIN, CRACK & SPALL REPAIR SYSTEM: CRETEFILL PRO SERIES

PROTECT

Densified-polished concrete is durable and beautiful, but in certain circumstances may require added protection. Topical stain repellents and guard products specifically formulated for densified-polished concrete floors may be used, but will require periodic re-application.

STAIN REPELLENT & GUARD:

RETROGUARD

RETROPEL

SALT PROTECTION:

SALT BLOCKER

CLEAN & MAINTAIN

The durability and longevity of densified-polished concrete is unmatched by other flooring products. However, adequate and proper maintenance is key to optimal floor performance. Concrete requires minimal maintenance, and with the proper tools, is very easy to do.

CONCRETE CLEANERS:

CRETE CLEAN

CreteClean Plus is safe for your floor, and your employees and customers!
The RetroPlate System contributes to LEED Points and has been used in many facilities earning LEED Platinum, Gold, Silver and Certified status.

*Photos from top to bottom:

- **LEED PLATINUM**
  - Autodesk
  - San Francisco, CA

- **LEED GOLD**
  - Washington Station/Obrien & Gere Headquarters
  - Syracuse, NY

- **LEED SILVER**
  - Cascadia Community College
  - Bothell, WA

- **LEED CERTIFIED**
  - Syracuse University - Carmelo K. Anthony Basketball Center
  - Syracuse, NY

*The above list is a small sampling of the numerous LEED projects that have utilized the RetroPlate System. For a more extensive list, contact Curecrete or visit www.retroplate.com.
CONTRIBUTES TO LEED POINTS

The California Academy of Sciences in San Francisco is one of the world’s greenest museums, earning 2 LEED Platinum awards and making it the world’s first “Double Platinum” museum.

CALIFORNIA ACADEMY OF SCIENCES
SAN FRANCISCO, CA, USA
by DIACON

NO VOCs

RetroPlate contains no Volatile Organic Compounds - 0 g/L (VOC-free) and contains no solvents. It also eliminates the need for floor adhesives.

UNIVERSITY OF CALGARY - TAYLOR INSTITUTE
CALGARY, AB, CANADA
by CONCRETE REFLECTIONS

ENHANCED NATURAL LIGHTING

Indoor spaces with highly reflective floors, such as densified-polished concrete, increase daylight reflectivity. Natural light (daylighting) has been touted not only for it’s aesthetics, but also it’s productivity and comfort benefits.

CURECRETE HEADQUARTERS
SPRINGVILLE, UT, USA
by BRAK CARMAN

RE-USE EXISTING CONCRETE | Sustainability

Existing concrete floors previously covered in coatings or material coverings can be rejuvenated and given new life by converting them into densified-polished concrete floors with limitless design potential and a one-time, permanent application that never requires re-application.

COBBORN’S
ST. JOSEPH, MN, USA
by GOPHER STATE CLEANING

CASE STUDY: VOLKSWAGEN CANADA

“1/3 of this Volkswagen facility’s lights have been permanently turned off.”

Tim Ryan, Facility Engineer
Volkswagen Canada, Inc.

LIFE CYCLE COST COMPARISON

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>INSTALLED COST</th>
<th>ANNUAL MAINTENANCE</th>
<th>EXPECTED LIFE</th>
<th>10 YEARS EXPENSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RetroPlate</td>
<td>$2 - $4</td>
<td>$0.25</td>
<td>10+ yrs.</td>
<td>$4.50 - $6.50</td>
</tr>
<tr>
<td>RetroPlate w/ Dyes</td>
<td>$2.50 - $6</td>
<td>$0.25</td>
<td>10+ yrs.</td>
<td>$5.00 - $8.50</td>
</tr>
<tr>
<td>Acrylic</td>
<td>$0.20</td>
<td>$0.50</td>
<td>6 - 12 mos.</td>
<td>$5.10 (min.)</td>
</tr>
<tr>
<td>Urethane</td>
<td>$0.75 - $2</td>
<td>$1.50</td>
<td>2 - 9 yrs.</td>
<td>$16 - $17</td>
</tr>
<tr>
<td>VCT</td>
<td>$1.50 - $4</td>
<td>$1.50</td>
<td>10+ yrs.</td>
<td>$16 - $20</td>
</tr>
<tr>
<td>Epoxy</td>
<td>$1.50 - $5</td>
<td>$1.50</td>
<td>1 - 5 yrs.</td>
<td>$16 - $20</td>
</tr>
<tr>
<td>Carpet</td>
<td>$2.50+</td>
<td>$1.50</td>
<td>5 - 10 yrs.</td>
<td>$17 - $20</td>
</tr>
<tr>
<td>Vinyl</td>
<td>$3 - $5</td>
<td>$1.50</td>
<td>9 yrs.</td>
<td>$18 - $25</td>
</tr>
<tr>
<td>Terrazzo (epoxy)</td>
<td>$13</td>
<td>$0.50</td>
<td>10+ yrs.</td>
<td>$18</td>
</tr>
<tr>
<td>Ceramic Tile</td>
<td>$7 - $8</td>
<td>$1.50</td>
<td>10+ yrs.</td>
<td>$22 - $23</td>
</tr>
<tr>
<td>Terrazzo (cement)</td>
<td>$12</td>
<td>$0.70</td>
<td>10+ yrs.</td>
<td>$19</td>
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</tbody>
</table>

*All prices are square-foot costs and use the initial installed cost, annual maintenance cost and life of the product to determine the Total Expense for 10 years. Information, other than for RetroPlate, is from NTMA, Concrete Construction and other independent sources. These are national pricing averages. Prices may vary depending on region.

1/3 OF THIS VOLKSWAGEN FACILITY’S LIGHTS HAVE BEEN PERMANENTLY TURNED OFF

“The RetroPlate System has met and exceeded all of our needs and expectations. The application has decreased our maintenance requirements as well as our utility costs. Thanks to the light reflective properties of the RetroPlate System we were able to turn off 1/3 of our overhead lights, cutting our bottom line significantly. The air is free of dust and debris allowing my colleagues and I to work in a safe and healthy environment.”

Tim Ryan, Facility Engineer
Volkswagen Canada, Inc.

Indoor spaces with highly reflective floors, such as densified-polished concrete, increase daylight reflectivity. Natural light (daylighting) has been touted not only for it’s aesthetics, but also it’s productivity and comfort benefits.

THE RETROPLATE SYSTEM HAS MET AND EXCEEDED ALL OF OUR NEEDS AND EXPECTATIONS. THE APPLICATION HAS DECREASED OUR MAINTENANCE REQUIREMENTS AS WELL AS OUR UTILITY COSTS. THANKS TO THE LIGHT REFLECTIVE PROPERTIES OF THE RETROPLATE SYSTEM WE WERE ABLE TO TURN OFF 1/3 OF OUR OVERHEAD LIGHTS, CUTTING OUR BOTTOM LINE SIGNIFICANTLY. THE AIR IS FREE OF DUST AND DEBRIS ALLOWING MY COLLEAGUES AND I TO WORK IN A SAFE AND HEALTHY ENVIRONMENT.”
PROJECT HIGHLIGHTS

ROYAL BRUNEI POLICE HEADQUARTERS // Brunei by BUE Enterprise

ST. STANISLAUS KOSTKA CHURCH // Pittsburgh, PA, USA by Surface Technologies, Inc.

HEB GROCERY // Piedras, Negras, MEXICO by Ashford Formula de Mexico

SAN MARCOS HIGH SCHOOL // San Marcos, CA, USA by Surfacing Solutions, Inc.

ALOFT HOTEL // San Jose, COSTA RICA by Aditec

BUNNINGS HARDWARE - CAFE // Keysborough, AUSTRALIA Managed through RetroPlate Australia

NATURAL HISTORY MUSEUM // Los Angeles, CA, USA by Mark Beamish Waterproofing, Inc.

SAN MARCOS HIGH SCHOOL

ST. STANISLAUS KOSTKA CHURCH

ROYAL BRUNEI POLICE HEADQUARTERS

HEB GROCERY

ALOFT HOTEL

BUNNINGS HARDWARE - CAFE

NATURAL HISTORY MUSEUM
MAINTENANCE PROGRAM

An effective maintenance program that includes routine scrubbing with soft to medium maintenance pads, ample down pressure and proper amounts of water and cleaner will enhance the floor’s performance significantly.

Scrub Floor OFTEN: Minimum routine cleaning 2 - 3 times per week with CreteClean Plus with Scar Guard provides superior results.

Clean Spills QUICKLY: Corrosive, oily, or aggressively staining contaminants should be removed quickly to avoid possible staining.

RECOMMENDED SUPPLIES

- **Mop & Bucket**
- **Automatic Scrubber**
  - Capable of 125 - 150 lbs. of downward pressure.
- **Soft to Medium Maintenance Pads or Nylon Brushes**
- **Cleaner: CreteClean Plus with Scar Guard™**
  - Performance enhancing cleaner specifically designed to clean densified and densified-polished concrete floors. Regular use helps decrease the visibility of minor scratches and blemishes and helps maintain the concrete sheen.
- **Oil Emulsifier & Acrylic Stripper: CreteStrip™**
  - Use directly on stain for spot treatment.
- **Salt Protection: Salt Blocker™**
  - Use if salt or deicing agents are present.

RECOMMENDED PRODUCTS

- **Cleaners:**
  - 5 gal. (19 L) pails
  - 55 gal. (208 L) drums

- **Oil Emulsifier & Acrylic Stripper:**
  - 1.2 oz. pac for mop and bucket
  - 6 oz. pouch auto scrubber (10-19 gal)
  - 12 oz. bottle for auto scrubber (20-30 gal)

- **Salt Protection:**
  - 5 gal. (19 L) pails
  - 55 gal. (208 L) drums

CONDITIONS TO AVOID

- Standing liquids of any kind
- Cleaners containing hydroxides or sulfates
- Acidic or caustic cleaners; acidic cleaners will etch the surface over time and dull the floor’s finish
- All contact with any acids
- Treated dust mops or sweeping compounds
- Bleach or any acidic/harsh chemicals
- Aggressive scrubbing brushes; Strata Grit, Nylo-Grit and other aggressive scrubbing brushes will alter the polished pattern and leave a dull appearance.

Photographs courtesy of Peter Wagner.
DON’T JUST IMAGINE THE POSSIBILITIES...
DESIGN THEM ONLINE

UNLOCK YOUR FLOOR’S UNLIMITED DESIGN POTENTIAL

RetroPlate’s innovative DESIGN CENTER allows you to visualize your polished concrete flooring options against 3 separate backgrounds. Scan the code or visit the link below to explore the endless possibilities!

www.retroplatesystem.com/design-your-floor

1 SELECT BACKGROUND
2 SELECT DYE COLOR
3 SELECT AGGREGATE LEVEL
4 SELECT SHEEN

TECHNICAL INFORMATION
QUICK LINKS

CERTIFICATIONS & RECOGNITIONS

▸ TÜV SÜD TM 14 Tested and Certified
▸ Zero (0) VOCs
▸ CE Declaration of Conformity
▸ REACH Certified
▸ NFSI Certified “High-Traction”
▸ Approved for use in food handling facilities

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CUSTOMER CARE
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HOW TO BUY
▸ RetroPlate is sold through a network of manufacturer representatives and international distributors. To locate your representative or distributor, please contact us.