Police Regional Training Facility, Fresno
Polished and Dyed Concrete

American Ambulance Service Shop, Fresno
Polished and Dyed Concrete

Constar Supply, Clovis
Polished Natural Gray Concrete

Ry-Den Isuzu Truck Service Shop, Fresno
Polished Natural Gray Concrete

Oliver's 41 Marine, Madera
Polished and Dyed Concrete, Etched Logo

Commercial Cafeteria, Lemoore
Polished and Dyed Concrete

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Institute of Technology, Clovis
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Walgreens, Store #2770, Stockton
Polished Natural Gray Concrete

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Benefits of Using Polished Concrete Floors

Polished concrete is a compelling choice for flooring requirements in a wide variety of facilities including retail, industrial, office, food service, educational, religious, warehousing and automotive due to its low cost, high durability, long life, ease of maintenance and abrasion resistant nature. Some of the benefits of a polished concrete floor include:

Unaffected by Vapor Pressure and Efflorescence: With ordinary unpolished concrete, any minerals present in the soil, in combination with any available moisture in the soil, migrate through the concrete to the surface through an upward force called hydrostatic pressure, resulting in efflorescence and dusting. This efflorescence, dusting and vapor pressure may force epoxies, toppings and other coatings and sealants to delaminate from the surface of concrete floors. This makes maintenance a costly priority and will drive up the cost of such toppings over their respective life-cycles. Polished concrete is not a topping so it will never delaminate and it allows efflorescence and vapor pressure to freely pass through it. Any efflorescence that accumulates on the surface of polished concrete can be easily wiped away.

Stain-Resistant: By mechanically and chemically densifying and sealing the surface, polished concrete transforms a porous concrete floor into a tightened floor that is dense enough to repel oil and other contaminants, but that is still breathable and unaffected by vapor pressure transmission.

Increased strength: Densifying the surface provides for greater strength for old, deteriorating, weak concrete, with more abrasion resistance (ASTM C779) and an increase in impact resistance (ASTM C805-97), as well. Polishing concrete mechanically removes the cream of the existing concrete floor (including any patchy, partial, or whole coatings), and hardens the exposed surface beneath. Old, deteriorating, or weak concrete is strengthened, and its impact and abrasion resistance are increased considerably.

Improved Reflectivity and Ambient Lighting: The increased reflectivity of a polished concrete floor reduces the required lighting in facilities, thus reducing the energy bill. One customer reports that they have been able to turn off all lighting during the day and rely only on skylights to illuminate their 10,500 SF boat showroom.

Limited Production/Plant Shutdowns: Polished concrete can be put into service immediately after the process is complete. Due to the cleanliness of the process and the lack of toxic or hazardous chemicals, floors can often be serviced while the plant is in operation.

Increased Slip Resistance: Polished concrete, though quite reflective, does not create a slippery floor. In fact, the benefits of mechanically grinding and flattening the floor will increase the static coefficient of friction (SCOF) when compared to ordinary concrete and other toppings and sealants. Polished concrete often exceeds OSHA standards for floors. (ASTM C1028)

Elimination of tire marks: Polished concrete will resist tire marks from fork lift trucks, vehicles and industrial type hoppers and parts baskets. With other floor systems, a tire mark is usually there to stay until the floor is repaired. When a forklift spins its tires on a coated floor the friction caused between the tires and the surface burns the coating and leaves a mark. This does not occur on a polished concrete floor as there are no resins or coatings to burn on the surface.

Decrease in overall fork lift tire wear and tear: In heavy industrial facilities, rough and uneven surfaces cause fork lift tires to wear out rather quickly. Most concrete floors experience curling at the joints, caused by the difference in curing times at the joint and in the field areas. Polishing concrete will level uneven joints and make the entire surface smooth, making tires last much longer.

Cost-Effective: Polished concrete will reduce energy and maintenance costs significantly through reflectivity and ambient lighting, reduction in upkeep, maintenance and repairs, and reduced fork lift tire wear. Life-cycle costs for polished concrete are considerably and consistently lower than any other type of flooring.

LEED® Friendly: Polished concrete not only utilizes existing concrete surfaces, eliminating the need for additional materials such as coverings, coatings and adhesives, it also contains no VOC's, making it friendly for any USBGC LEED® project.

Less Maintenance: Most floor systems, including ceramic tile, VCT and linoleum, require aggressive scrubbing to maintain a clean environment and nice appearance. Polished concrete surfaces are tightly compacted, reducing stains, and do not require any waxing or stripping to maintain their sheen.

Comparative Life Cycle Costs for Different Types of Flooring

Product	Installed Cost / SF	Annual Maintenance Cost / SF	Expected Life	Ten-Year Life-Cycle Cost / SF
Polished Gray Concrete	$3.25 - $5.15	$0.25	10+ yrs.	$5.75 - $7.65
Polished Dyed Concrete	$3.60 - $6.50	$0.25	10+ yrs.	$6.10 - $9.00
Acrylic Coating	$0.20	$0.50	6-12 mos.	$5.10 (min)
Epoxy Coating	$1.50 - $5.00	$1.50	1-5 yrs.	$16.50 - $20.00
Urethane Coating	$0.75 - $2.00	$1.50	2-9 yrs.	$15.75 - $17.00
Sheet Vinyl	$3.00 - $5.00	$1.50	9 yrs.	$18.00 - $25.00
Vinyl Composition Tile (VCT)	$1.50 - $4.00	$1.50	10+ yrs.	$16.00 - $20.00
Carpet	$2.50	$1.50	5-10 yrs.	$17.50 - $20.00
Ceramic Tile	$8.00	$1.50	10+ yrs.	$22.00 - $23.00
Cement Terrazzo	$12.00	$0.70	10+ yrs.	$19.00
Epoxy Terrazzo	$13.00	$0.50	10+ yrs.	$18.00

Source: Data from the National Terrazzo and Mosaic Association, Concrete Construction magazine, and other independent sources.

Deli Delicious, Fig Garden Village, Fresno
Polished and Dyed Concrete, Etched Logo

Dyed / Gray Polished Concrete

Polishing new or old concrete creates a beautiful, protective sheen. Dying a polished concrete floor can produce vibrant tones or that one-of-a-kind subtle hue to match an office lobby. Ordinary concrete can become functional and stylish. Concrete, once polished, becomes a highly reflective surface, meaning you'll need less lighting in any given area and is great for industrial settings where reduced lighting can save money.

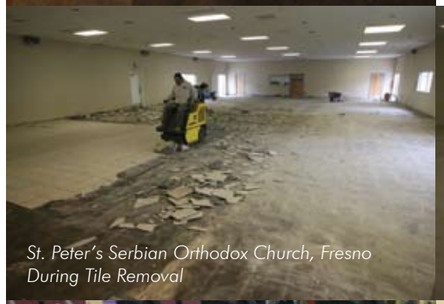
Polished concrete offers exceptional resistance to slipping, abrasion and impact. These floors will also repel water, oil and dust and are superior to limited-life coatings. Polished concrete does not require replacement, recoating or waxing. The non-toxic, non-flammable and odorless application is an environmentally friendly, affordable, and practically maintenance free flooring solution.

Logos and Designs

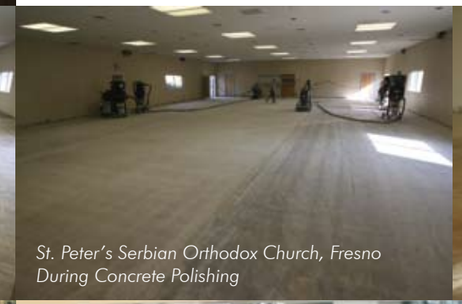
Adding a company logo or other design to your polished concrete can add a dramatic flair to your floors and help enhance and promote your business.

Existing Flooring Removal

Ceramic tile, VCT, linoleum, carpeting, wood and other types of existing flooring can be easily and quickly removed using a ride-on floor scraping machine, leaving the existing concrete ready to be polished.



St. Peter's Serbian Orthodox Church, Fresno
During Tile Removal



St. Peter's Serbian Orthodox Church, Fresno
During Concrete Polishing

St. Peter's Serbian Orthodox Church, Fresno
Finished Polished and Dyed Concrete

Xcelerate Fitness, Selma
Polished Natural Gray Concrete

Kolligian Library, UC Merced
Polished Integrally Colored Concrete