

# **SmartFloor™**

***Sustainable Concrete Floor Systems***

## **SmartFloor™ Abrasive Technology**

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SmartFloor™ Refinement System

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SmartFloor™ Maintenance System

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Lowest Life-Cycle Costs

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SmartFloor™ Warranty

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SPECIFY | INSTALL | SUSTAIN

TECHNOLOGY BROUGHT TO YOU BY :

**AMERIPOLISH®**

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# The Ameripolish® Way



Ameripolish® is proud to represent a product line determined to be of the highest quality and desirably affordable. Ameripolish® stakes its claim as the only polished concrete company that can cover your consumable product needs from curing the concrete through maintaining the floor.

Here at Ameripolish® we manufacture and design only the best products made specifically for the concrete industry. After watching the polished concrete industry struggle with failed polished concrete floors due to an array of reasons, we developed the SmartFloor™ System. We hope you will give us the opportunity to show you how the SmartFloor™ System, and the Ameripolish® team, are different.

If properly followed, a “SmartFloor” will demonstrate itself to be an incredibly beautiful and long-lasting floor solution.

Sincerely,

Clint Howle  
President  
Ameripolish®, Inc.

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“Every once in a while, a new technology, an old problem, and a big idea turn into an innovation” - Dean Kamen

# THE BENEFITS OF POLISHED & EXPOSED CONCRETE

Easy-to-clean, highly durable concrete makes a fantastic flooring choice for industrial sites, commercial spaces and retail facilities due to its versatile decorative look and cost-effective life cycle.



## Ecologically Efficient

The structural slab is used as the finish, so no other materials are harvested to cover it



## Reflectivity

The reflective surface brightens the facility and reduces the need for artificial lighting



## Cost-Effective

The durability of polished concrete combined with its enduring life cycle make it one of the most cost effective flooring solutions available



## Non-Pollutant

Polished concrete installation releases low Volatile Organic Compounds (VOCs), therefore the floor emits few airborne contaminants



## Low Maintenance

Polished concrete is easy-to-clean and doesn't require stripping and waxing like previous retail floor systems



## Versatility

Polished concrete can be designed in any color, sheen or aggregate exposure to work with any decor



## Highly Durable

True polished concrete doesn't rip or scuff because there is no topical coating on the surface, and it holds up to high traffic and abuse



## Allergen Free

Polished concrete harbors no dustmites, dander or mold

# WHAT IS THE SMARTFLOOR™ SYSTEM?

The SmartFloor™ System is a ground-breakingly different continuous wet polishing system.

It consists of two systems derived of the same technology. The SmartFloor™ Refinement System is the first of the two and is an abrasives system designed for use on various types of machines that would “install” a polished concrete floor. The SmartFloor™ Maintenance System is the second of the two SmartFloor™ Systems and is a maintenance abrasive system designed for use on automatic scrubbers and swing machines.

The SmartFloor™ system doesn't stop when the installers complete the job with the SmartFloor™ Refinement System. With the SmartFloor™ System, installation and maintenance are one continuous polishing process that is utilizing the same composite resin abrasive technology in each system. Your floor continues to perform for true longevity and the lowest possible life-cycle cost.

When the SmartFloor™ Maintenance procedure is properly followed, your floor stays at a desirable finish level. Using a three-fold, comprehensive approach, the SmartFloor™ System begins at specification - when specifying for Ameripolish® Chemicals, continues through installation with the SmartFloor™ Refinement System and is sustained through the SmartFloor™ Maintenance System that incorporates continuous polishing during the cleaning/refurbishing process.

This “Smart” system utilizes Ameripolish®'s state-of-the-art penetrating curing agent, densifier and sealer and surfactant technology to strengthen and enhance the concrete, as well as protect it against daily abrasion that can deteriorate its aesthetic quality. Through the SmartFloor™ Maintenance System, every time your floor is cleaned not only will the composite resin abrasive cleaning pads be refining the polishing process, but also the Ameripolish® Rejuvenating Cleaner will be reinforcing the sealer while lubricating the diamond pads and lifting contaminants.

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The SmartFloor™ System  
Installation & Maintenance in One  
Continuous Process

SPECIFY

CHEMICALS



INSTALL

REFINEMENT SYSTEM

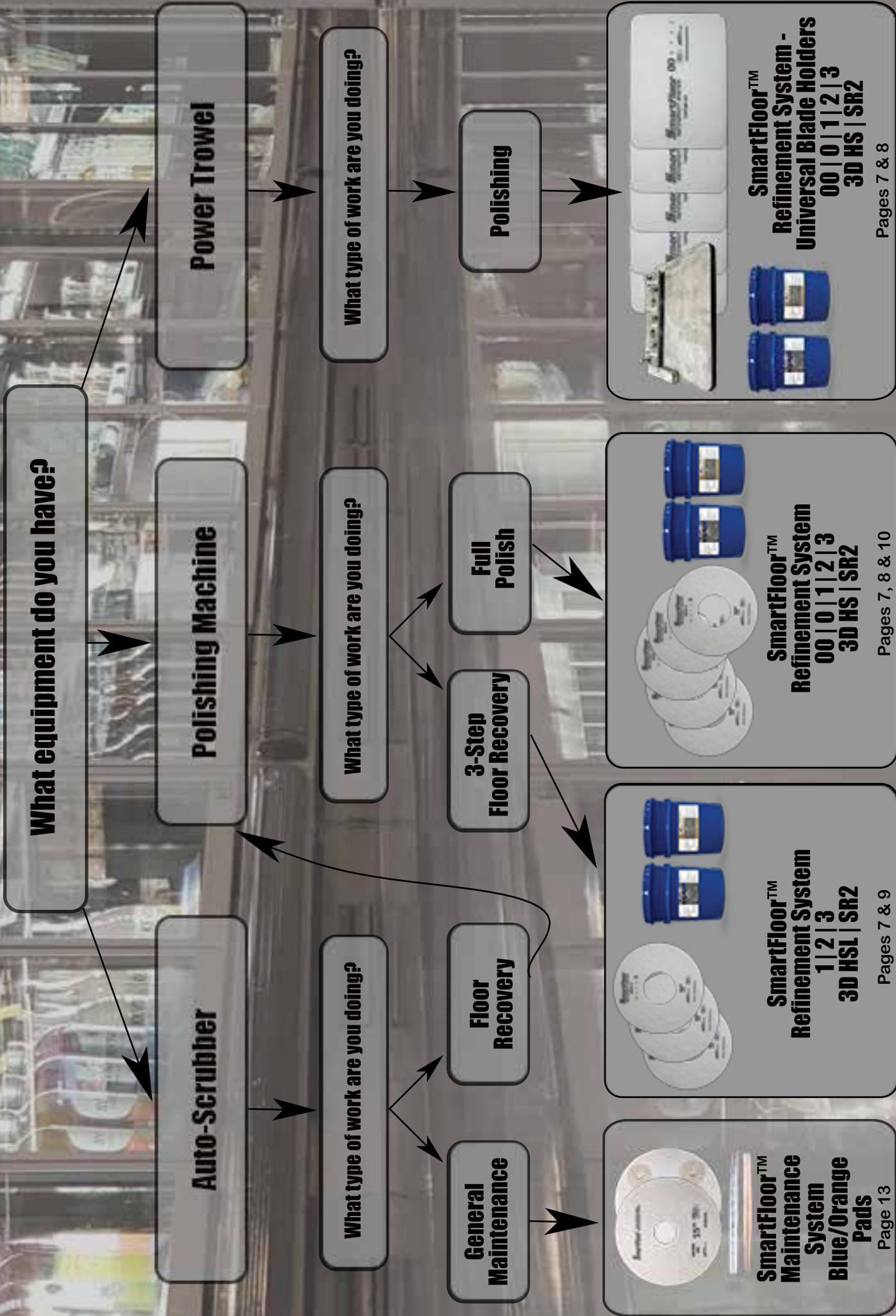


SUSTAIN

MAINTENANCE SYSTEM



# Which AMERIPOLISH SmartFloor System Do You Need?



**What equipment do you have?**

**Auto-Scrubber**

**Polishing Machine**

**Power Trowel**

**What type of work are you doing?**

**What type of work are you doing?**

**What type of work are you doing?**

**General Maintenance**

**Floor Recovery**

**3-Step Floor Recovery**

**Full Polish**

**Polishing**



**SmartFloor™ Maintenance System Blue/Orange Pads**

Page 13



**SmartFloor™ Refinement System 1|2|3 3D HSL | SR2**

Pages 7 & 9



**SmartFloor™ Refinement System 00|0|1|2|3 3D HS | SR2**

Pages 7, 8 & 10



**SmartFloor™ Refinement System - Universal Blade Holders 00|0|1|2|3 3D HS | SR2**

Pages 7 & 8

# THE SMARTFLOOR™ REFINEMENT SYSTEM

SmartFloor™ Refinement System stands out from other systems because of its simplistic design; equip your machine within minutes and begin polishing.



Figure 1.1



Figure 1.2

Polished concrete can be one of the more tedious flooring solutions in terms of equipment, but our SmartFloor™ Refinement System is fast to set up and easy to use.

How great would it be to be able to equip any machine with the same set of tooling, no matter the machine manufacturer or machine type? This feature is yet another way SmartFloor™ Refinement System stands out from the crowd. The SmartFloor™ Refinement System can be made in any pad size or shape.

Users can choose to outfit their machines with our patented rectangular blade system for power trowels (Figure 1.1) or compliment their planetary system with our custom GPR rings (Figure 1.2). GPR rings are made in 7"-20" pad designs!

These features make the SmartFloor™ Refinement System stand out from the competition.



## Ride-On & Walk-Behind PowerTrowels

The SmartFloor™ Refinement System is suitable for heavy-duty, ride-on or walk-behind power trowel machines, allowing users to cover tens of thousands of square feet per day.



## Traditional Polishing Machine

With the SmartFloor™ Refinement system custom GPR ring designs, you can equip almost any polishing machine that have velcro head attachments. Allowing you to keep the machines you already own and still speed up your polishing process!



## 3-Step Floor Recovery (Before)

Utilizing the GPR Series SmartFloor™ Refinement System pads with various machines allows for floor rejuvenations in just 3 quick "polishing" steps on floors that have been previously polished.



## 3-Step Floor Recovery (After)

All SmartFloor™ Refinement System Steps are run wet, so there is no dust allowing for facilities to remain open during the day while floor/aisle rejuvenation is completed overnight.

## THE TOOLING - WHAT IS IT, AND WHY IS IT DIFFERENT?

Diamond tooling comes in many options, such as metal bonds, hybrids and resins, just to name a few; there is always a discussion surrounding the best steps and methods of tooling to use.

It can be hard to decide what system to use until you discover the simplicity of the SmartFloor™ Refinement System. Using truly groundbreaking, “composite resin abrasive” patented technology, the SmartFloor™ Refinement System delivers the fastest, most jaw-dropping results in just five easy steps: Double Zero (00), Zero (0), One (1), Two (2) and Three (3). Once again, where SmartFloor™ Refinement System stands out is when switching abrasives between steps, taking virtually seconds to detach and reattach pads that are secured to Velcro on the Universal Blade Holders. Even on a large machine, one person can operate the entire system safely.

The SmartFloor™ program was designed after years of observing many concrete flooring programs and the common challenges each program faces. The SmartFloor™ System is a solution to many of the issues that we as a company have come head-to-head with over the past 16 years working in polished concrete.

SmartFloor™ Refinement System pads equip easily to velcro head attachments.



SmartFloor™ Refinement System fits virtually any machine design, including that of traditional polishing machines.



Each SmartFloor™ Refinement System Abrasive is in and of itself truly “Smart”. Leaving no guesswork for the end user, each step of the system is marked in chronological order on every abrasive, bolding out the step to which it belongs.

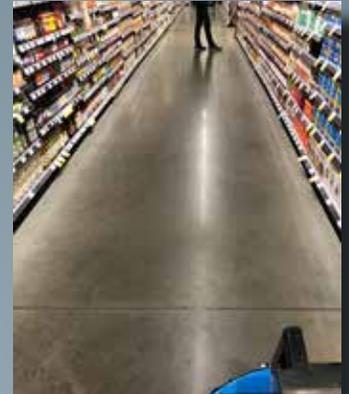
# 3-Step Floor Recovery Process

Additionally, the SmartFloor™ Refinement System can be used to rejuvenate, refurbish and recover previously polished floors that have been dulled, stained and etched from years of abuse or improper maintenance using just three of the five regular steps. Using just steps One (1), Two (2) and Three (3) you can quickly and easily restore the aesthetic of your floor to even better and more sustainable than it was at its initial installation!

## BEFORE



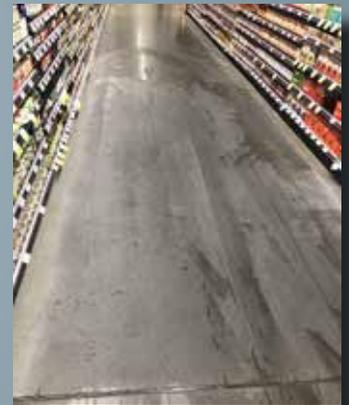
Etching, dirt, grime dull and worn concrete



## DURING



Refinement with the 1's | 2's & 3's



## AFTER

Recovered to a high sheen & DOI, protected with SR2™ PLUS





Turn an old, failed floor into a modern masterpiece with the SmartFloor™ Refinement System

## THE SMARTFLOOR™ REFINEMENT SYSTEM

### POLISHED CONCRETE PROCESS:

During the polishing process, floor installers using SmartFloor™ Refinement System will first grind the concrete with the #00 step, then apply PG-7K grout coat (if needed) and densify with 3D HS densifier to strengthen the floor. After these applications, our #0, #1, #2 and #3 tool steps should be completed.

At this point you can elect to apply our Classic or SureLock™ dye and ColorSolve™ to introduce any color into the floor, or leave the concrete its natural color. After the floor has been thoroughly cleaned and free of dust and debris, installation contractors should apply the Ameripolish® SR2™ PLUS™ fully penetrating sealer, which is designed to protect the floor from within itself and allow for the continued process of the SmartFloor™ Maintenance system. After Ameripolish® SR2™ PLUS™ has been applied, the installation contractor should burnish with our G-series burnishing pads (details on the G-series pads are on page 14).

Here is yet another way the SmartFloor™ Refinement system is different. After your flooring project has been installed, most systems would have walked away with the installer, but not SmartFloor™. The very same “composite resin abrasive” technology that installed the floor will be handed off in the form of a maintenance system fitted for automatic scrubbers to the floor owner. Read on about the SmartFloor™ Maintenance on page 10.

Step	Grit Equivalent
00	40
0	100
1	400
2	800
3	1500



The SmartFloor™ System is one continuous polishing system that never stops.

# WHAT ARE THE CHEMICALS DOING?



Ameripolish® 2019 World of Concrete Demo Slab



PCA  
Strengthens at Cure



SureLock™ Dye  
Optional Color at Install



3D HS  
Densifies at Install



SR2™ PLUS  
Seals and Protects from  
Within

## The SmartFloor™ System Chemicals

Using a three-fold, comprehensive approach, the SmartFloor™ System begins at specification, continues through installation and is sustained through ongoing maintenance. This unique approach combined with our unique hybrid chemical technology is measurably different.

### Strengthen at Construction with PCA

During the cure of the concrete slab, most curing compounds rely on UV to dissipate, however UV isn't always available in the case of indoor construction. Ameripolish® developed PCA™ Penetrating Curing Agent to adequately aid in the curing process, improve abrasion resistance and minimizing the effects of traffic wear, crazing and weathering. It even provides added stain resistance and can be used as a troweling aid.

### Color at Installation with SureLock™ Dye

SureLock Dyes are versatile colorants for polished concrete that mix with water or Ameripolish® ColorSolve™. The predissolved concentrate liquid is fast and easy to use. The formula includes UV stabilizers to resist fading as well as a penetrating agent to eliminate further mixing and develop deep, rich colors even on hard, dense concrete.

### Densify at Installation with 3D HS

3D HS™ - Hybrid Silicate Densifier - improves surface performance, tightens the surface for polishing and helps to make the surface resistant to the harmful effects of traffic wear and weathering, as well as dustproofing.

### Seal and Protect from within with SR2™ PLUS

Ameripolish® SR2™ PLUS is a penetrating stain-resistant sealer specifically formulated to protect polished, dyed and exposed concrete from oil, water-based stains and acidic etching agents. In independent testing, the SR2™ PLUS sealer has outlasted other products on the market for its superior stain resistance qualities.



# THE SMARTFLOOR™ MAINTENANCE SYSTEM

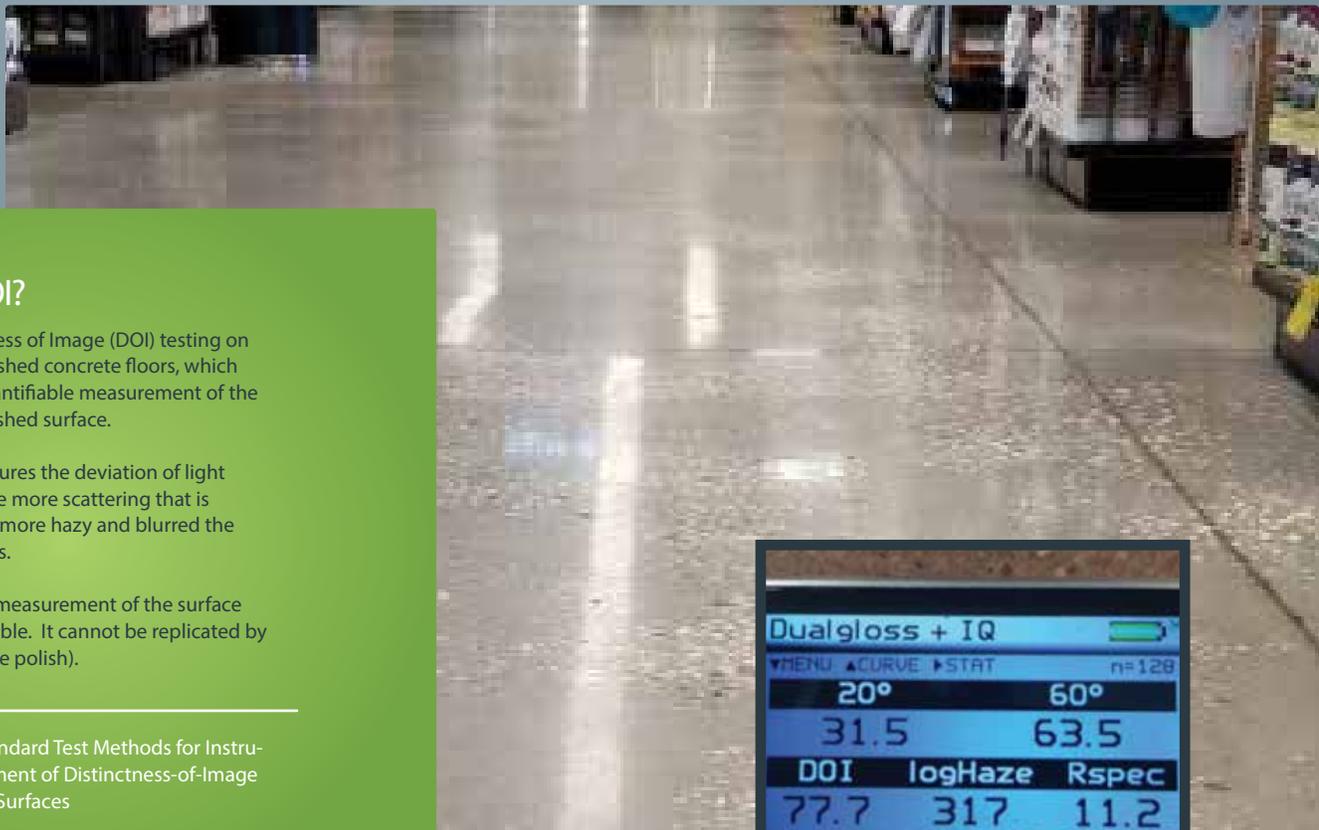
SmartFloor™ is about much more than what products you use. SmartFloor™ is unique because it is about creating a powerful connection between specification, installation and maintenance.

Floor owners will be equipped with “composite resin abrasive” technology suited to maintain their floor. That tool is the Blue-Daily Maintenance pad, designed for everyday maintenance of the floor beneath an automatic scrubber. Simply running this pad daily will maintain and - in some cases - even improve the DOI readings of the floor.

The SmartFloor™ System is about continuity and consistent care for the life of your floor.

#### Support:

Our technical support staff will remain available to your maintenance personnel throughout the life of the floor to ensure that questions are answered, solutions are found and challenges are overcome.



## What is DOI?

We use Distinctness of Image (DOI) testing on SmartFloor™ polished concrete floors, which provides us a quantifiable measurement of the clarity of the polished surface.

DOI testing measures the deviation of light by scattering. The more scattering that is experienced, the more hazy and blurred the reflection appears.

DOI is the truest measurement of the surface refinement available. It cannot be replicated by a false sealer (false polish).

ASTM D5767: Standard Test Methods for Instrumental Measurement of Distinctness-of-Image Gloss of Coating Surfaces

Dualgloss + IQ		
MENU CURVE STAT n=128		
20°	60°	
31.5	63.5	
DOI	logHaze	Rspec
77.7	317	11.2
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## HOW IT WORKS: SUSTAINING THE FINISH

The SmartFloor™ Maintenance system has a two step system (Orange and Blue pads) for “restoration” and “Maintenance”. To sustain the finish after installation with the SmartFloor™ Refinement system, simply use the Blue-Daily Maintenance pad from the SmartFloor™ Maintenance system underneath an automatic scrubber. The additional Orange-Restoration Pad, would be used on an “as-needed” basis, for example the “pickle aisle” scenario or for a floor restoration/refurbish.

SmartFloor™ Maintenance System is also inclusive of Rejuvenating Cleaner, which is a polished concrete cleaner with properties of the SR2™ PLUS sealer within it to help increase longevity of the sealer. Simply mixing Rejuvenating Cleaner in the automatic scrubber tank while running the Blue-Daily Maintenance pads is the basic maintenance protocol. Blue-Daily Maintenance pads can last an astounding 1,000,000 square feet.

When an acidic product falls from the shelf and hits the floor, even with proper protection it can harm the floor. With the Orange-Restoration Pads we are able to restor a dull, lightly worn floor that has lost its luster back to its original aesthetic look. Furthermore, if stains and etches go untreated and wear patterns become present in a floor, then the SmartFloor™ Restoration pads can be used to refurbish a worn-out polished concrete floor that may otherwise need to be reinstalled.



### Rejuvenating Cleaner

Is made with sealer reinforcement that cleans without harsh chemicals, and has added antimicrobial protection built-in to provide an additional level of protection from microorganisms

For Daily Use



### Blue - Daily Maintenance Pads

Will maintain and improve the aesthetics, especially Distinctness Of Image (DOI) or clarity of a concrete floor

For Daily Use



### SR2™ PLUS

Seals and protects from within to provide stain protection

Biennial Application



### Orange - Restoration Pads

Will restore a dull, lightly worn out floor back to a sustainable aesthetic

As Needed

## HOW DOES SMARTFLOOR™ MAINTENANCE COMPARE TO ITS COMPETITORS?

SmartFloor™ Maintenance outperforms its competition the first time it touches the floor. Competitor products actually deteriorate DOI measurements the more they are run on the surface, while the SmartFloor™ DOI pad increases and maintains the DOI measurements. This performance indicates better light reflectivity over time as opposed to competitor products, which would decrease light reflectivity and aesthetic properties of the floor.

So how does SmartFloor™ Maintenance compare to the competition? You decide!



The SmartFloor™ System provides unparalleled continuity from installation to maintenance, resulting in a long-lasting finish

## THE AMERIPOLISH® G-SERIES BURNISHING PADS

Ameripolish® G-series pads are floor burnishing pads for use on high speed floor machines that operate in the 1500-3000 RPM range. The pad is made of polyester fibers in a nonwoven construction. This product is designed for the dry burnishing phase after Ameripolish® stain protection is applied and dried. The pad is available in varying sizes.



G-Series Pad	Grit Equivalent
G3	3000
G2	1500
G1	800

The Ameripolish® G-series pads offer superior performance at nearly half the cost per square foot...

# PRODUCT CODES AND PRICING

## SMARTFLOOR™ REFINEMENT SYSTEM PADS

Item #	Unit	MSRP
TDP128-00	00 Blade 2Pack	\$192.50
TDP128-0	0 Blade 2 Pack	\$192.50
TDP128-1	1 Blade 2 Pack	\$178.75
TDP128-2	2 Blade 2 Pack	\$178.75
TDP128-3	3 Blade 2 Pack	\$178.75
UVHDLR-2	Universal Blade Holder (2)	\$450.00
TDP66-00	00 Edging Blade 4 Pack	160.00
TDP66-0	0 Edging Blade 4 Pack	160.00
TDP66-1	1 Edging Blade 4 Pack	120.00
TDP66-2	2 Edging Blade 4 Pack	120.00
TDP66-3	3 Edging Blade 4 Pack	120.00
EDHDLR-2	Edging Blade Holder	*TBD

Item #	Unit	MSRP
GPR-8	8" Rings, All Steps	*TBD
GPR-9	9" Rings, All Steps	\$53.0-\$62.0
GPR-10	10" Rings, All Steps	*TBD
GPR-11	11" Rings, All Steps	\$65.0-\$74.0
GPR-12	12" Rings, All Steps	*TBD
GPR-13	13" Rings, All Steps	\$75.0-\$86.0
GPR-14	14" Rings, All Steps	\$80.0-\$92.0
GPR-15	15" Rings, All Steps	*TBD
GPR-16	16" Rings, All Steps	*TBD
GPR-17	17" Rings, All Steps	*TBD
GPR-18	18" Rings, All Steps	*TBD
GPR-19	19" Rings, All Steps	*TBD
GPR-20	20" Rings, All Steps	*TBD

## G-SERIES BURNISHING PADS

Item #	Unit	MSRP
G3-27-2	27" G3 Burnishing Pad 2 Pack	\$120.00
G3-24-2	24" G3 Burnishing Pad 2 Pack	\$110.00
G3-21-2	21" G3 Burnishing Pad 2 Pack	\$100.00
G2-27-2	27" G2 Burnishing Pad 2 Pack	\$120.00
G2-24-2	24" G2 Burnishing Pad 2 Pack	\$110.00
G2-21-2	21" G2 Burnishing Pad 2 Pack	\$100.00
G1-27-2	27" G1 Burnishing Pad 2 Pack	\$120.00
G1-24-2	24" G1 Burnishing Pad 2 Pack	\$110.00
G1-21-2	21" G1 Burnishing Pad 2 Pack	\$100.00

## SMARTFLOOR™ MAINTENANCE PADS

Item #	Unit	MSRP
WMREST13-2	SmartFloor™ Orange Restoration 20" - 2 pack	\$47.95
WMREST14-2	SmartFloor™ Orange Restoration 20" - 2 pack	\$50.47
WMREST15-2	SmartFloor™ Orange Restoration 20" - 2 pack	\$60.67
WMREST16-2	SmartFloor™ Orange Restoration 20" - 2 pack	\$63.09
WMREST17-2	SmartFloor™ Orange Restoration 20" - 2 pack	\$65.61
WMREST20-2	SmartFloor™ Orange Restoration 20" - 2 pack	\$75.72
WMDMP-13-2	SmartFloor™ Blue Daily Maintenance 13" - 2 pack	\$47.95
WMDMP-14-2	SmartFloor™ Blue Daily Maintenance 14" - 2 pack	\$50.47
WMDMP-15-2	SmartFloor™ Blue Daily Maintenance 15" - 2 pack	\$60.67
WMDMP-16-2	SmartFloor™ Blue Daily Maintenance 16" - 2 pack	\$63.09
WMDMP-17-2	SmartFloor™ Blue Daily Maintenance 17" - 2 pack	\$65.61
WMDMP-20-2	SmartFloor™ Blue Daily Maintenance 20" - 2 pack	\$75.72

# OUR QUALITY WARRANTY

Ameripolish®, Inc. warrants concrete floors treated with the full SmartFloor™ System against excessive Distinctness of Image (DOI) loss.

The SmartFloor™ System includes application and maintenance of SmartFloor™ System products by an approved, licensed contractor in accordance with Ameripolish®, Inc. written instructions.

Please contact us for our full warranty in detail.



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Ameripolish® warrants the SmartFloor™ system from excessive DOI loss.

# THE SMARTFLOOR™ SYSTEM



The SmartFloor™ is an affordably different continuous polishing system that eliminates floor failures when properly followed, so your floor is left permanently polished. Using a three-fold, comprehensive approach, the SmartFloor™ System begins at specification, continues through installation, and is sustained through ongoing maintenance.

## THE SMARTFLOOR FAMILY OF PRODUCTS



**PCA™**  
Strengthens at Cure



**3D HS™**  
Densifies at Install



**SR2™ PLUS™**  
Protects from Within



**Rejuvenating Cleaner**  
Revitalizes while it Cleans



**SmartFloor™ Maintenance**  
Restores DOI Values &  
Remediates Stains



**SmartFloor™ Refinement System**  
Universal Power Trowel Polishing Abrasives

**AMERIPOLISH®**  
architectural concrete products

Technical Support  
Toll Free: 800-592-9320 | [www.ameripolish.com](http://www.ameripolish.com)