FLOORGUARD PERFORMANCE & SPECIFICATION GUIDE

ENGINEERED FLOORING SOLUTIONS FOR **REAL-WORLD CONDITIONS**

- High Performance
- Proven Durability
- Engineered Solutions
- Built for Real-World Conditions

PROVEN PERFORMANCE
Tested systems for demanding environments.

ENGINEERED SOLUTIONS
Systems designed for maximum reliability.

BUILT TO LAST
Long-lasting protection that stands up to real-world conditions.

TRUSTED EXPERTISE
Backed by industry knowledge and support.

HOW TO USE THIS GUIDE

SELECTING THE RIGHT FLOORING SYSTEM

A PRACTICAL APPROACH FOR CONTRACTORS AND SPECIFIERS

START WITH CONDITIONS → CONFIRM PERFORMANCE → SPECIFY WITH CONFIDENCE

01

IDENTIFY CONDITIONS

Evaluate the project environment and expected demands.

- Substrate condition (cracks, moisture, age)
- Environmental exposure (chemical, thermal, UV)
- Traffic type (pedestrian, vehicular, impact)
- Operational needs and downtime tolerance

01

02

SELECT SYSTEM

Use the System Selection Guide to match conditions to the correct system.

02

03

VALIDATE PERFORMANCE

Compare systems using objective data to ensure the best fit.

- Performance matrix
- ASTM data
- System profiles

03

PRO TIP

The best flooring system starts with understanding your conditions and ends with a **confident specification.**

STRONG
SYSTEMS
SUPERIOR
RESULTS

BUILT FOR PERFORMANCE.
DESIGNED TO LAST.

SYSTEM SELECTION GUIDE

System Selection by Jobsite Condition

CONDITION / JOBSITE CHALLENGE	RECOMMENDED FGP SYSTEM
General commercial flooring	FGP Flake System
Fast turn-around required	FGP Rapid-Cure Flake System
Heavy impact / forklifts	FGP Polyurea Flake System
Cracked or moving slabs	FGP Flexible Flake System
UV / exterior exposure	FGP Polyaspartic Flake System
Chemical exposure	FGP Solid Industrial System
Wet / slip-critical	FGP Quartz System
Thermal - chemical (decorative)	FGP UC Flake System
Thermal - high traction	FGP UC Quartz System
Decorative architectural	FGP Metallic Marble System
High traffic wear	FGP High Traffic System
Washdown / thermal cycling	FGP Medium Duty UC System
Extreme industrial	FGP Heavy Duty UC System
Renovation over movement	FGP Flexible Traffic System
Budget / breathable	FGP Grind & Seal System

PROVEN SYSTEMS
Engineered for demanding environments.

BUILT TO LAST
High-performance solutions that stand the test of time.

EXPERT SUPPORT
From selection to installation, we've got you covered.

TRUSTED RESULTS
Reliable flooring systems that perform.

SYSTEM CLASSIFICATION

FGP Systems by Functional Category

DECORATIVE

- Flake
- Metallic Marble

DECORATIVE THERMAL

- UC Flake
- UC Quartz

INDUSTRIAL

- Solid Industrial
- High Traffic

MOVEMENT CONTROL

- Flexible Flake
- Flexible Traffic

THERMAL & HYGIENIC

- Medium-Duty Urethane Cement
- Heavy-Duty Urethane Cement

FAST RETURN

- Rapid-Cure Flake
- Polyurea Flake
- Polyaspartic Flake
- Grind & Seal

THE RIGHT SYSTEM. FOR EVERY SPACE.

PURPOSE BUILT
Engineered for performance.

PROVEN RESULTS
Trusted in the most demanding environments.

BACKED BY EXPERTS
Support you can count on from start to finish.

QUICK SELECTION MATRIX

FAST REFERENCE GUIDE

IMPACT →	Polyurea systems deliver superior impact resistance for heavy-duty environments.
THERMAL →	Urethane cement systems perform best in extreme temperature conditions.
WET/SLIP →	Quartz broadcast systems provide optimal traction in wet or slippery areas.
UV →	Polyaspartic systems are UV-stable and resist yellowing and fading.
CRACKS/ MOVEMENT →	Flexible systems accommodate substrate movement and bridge cracks.
FAST →	Rapid cure systems enable fast return-to-service and reduced downtime.
LOAD BEARING →	Epoxy systems offer high compressive strength for heavy load conditions.
TRAFFIC/WEAR →	Aggregate broadcast systems resist abrasion in high-traffic and heavy-wear areas.

RIGHT SYSTEM
Match the right flooring system to your environment.

FASTER DECISIONS
Simplify selection with our quick reference guide.

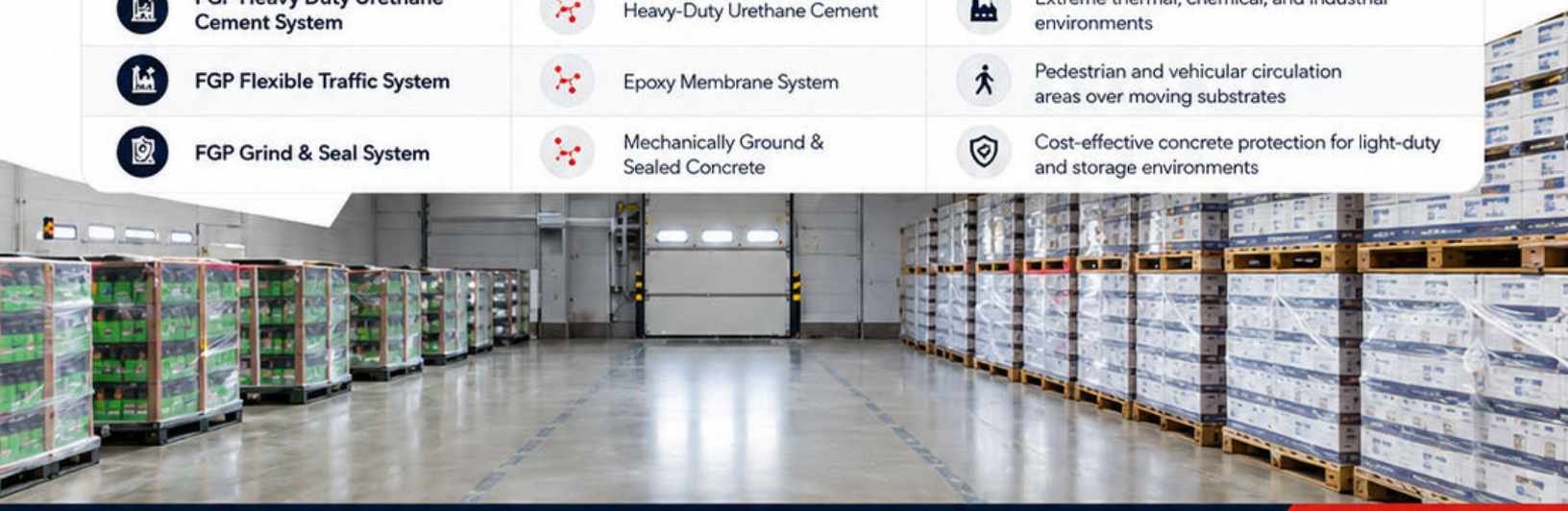
BETTER PERFORMANCE
Optimized solutions for long-term reliability.

PROVEN RESULTS
Trusted systems built for durability and safety.

SYSTEM INDEX

High-performance flooring systems engineered for every environment.

SYSTEM NAME	TYPE	PRIMARY USE
FGP Flake System	Epoxy Broadcast	General residential/light-commercial flooring
FGP Rapid-Cure Flake System	Fast-Cure Epoxy Broadcast	Occupied facilities requiring fast return-to-service
FGP Polyurea Flake System	Polyurea Broadcast	High-impact, fast-turn industrial and mechanical environments
FGP Flexible Flake System	Epoxy Membrane Broadcast	Crack-prone or movement-affected substrates
FGP Polyaspartic Flake System	UV-Stable Polyaspartic Broadcast	Exterior or UV-exposed decorative flooring
FGP UC Flake System	Urethane Cement Broadcast	Thermal shock, washdown, and chemical exposure environments with decorative finish
FGP UC Quartz System	Urethane Cement Quartz Broadcast	Wet, high-traction, chemical and thermal shock environments
FGP Solid Industrial System	Solid Epoxy Coating	Chemical-resistant industrial flooring
FGP Quartz System	Epoxy Quartz Broadcast	Wet, slip-resistant, safety-critical areas
FGP Metallic Marble System	Decorative Epoxy System	Architectural and aesthetic flooring applications
FGP High Traffic System	High-Build Epoxy System	Heavy wear corridors and traffic-intensive areas
FGP Medium Duty Urethane Cement System	Urethane Cement	Food, beverage, and washdown processing areas
FGP Heavy Duty Urethane Cement System	Heavy-Duty Urethane Cement	Extreme thermal, chemical, and industrial environments
FGP Flexible Traffic System	Epoxy Membrane System	Pedestrian and vehicular circulation areas over moving substrates
FGP Grind & Seal System	Mechanically Ground & Sealed Concrete	Cost-effective concrete protection for light-duty and storage environments



BUILT TO PERFORM
Engineered systems for demanding environments.

TRUSTED RESULTS
Proven durability, safety, and performance.

EXPERT SUPPORT
Dedicated guidance from start to finish.

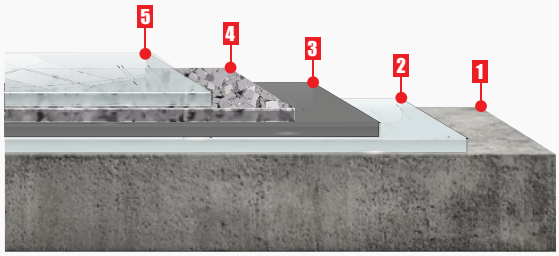
BUILT STRONG. BUILT TO LAST.

FGP FLAKE

MOISTURE TOLERANT DECORATIVE FLAKE SYSTEM

Decorative epoxy broadcast system designed for general purpose environments requiring durability, chemical resistance, and a consistent aesthetic finish.

SYSTEM BUILD-UP



1	Concrete Substrate
2	*MV2112 Moisture Mitigation Primer
3	Pigmented HyperBOND
4	Decorative Flake Broadcast
5	Clear Aspartic 85

*Only required when MVE exceeds 9 lbs/ 1,000 Ft²/ 24 hours

PERFORMANCE DRIVERS

- ✓ Balanced chemical resistance and abrasion performance
- ✓ Moisture-tolerant epoxy base system
- ✓ Durable decorative broadcast finish
- ✓ Cost-effective lifecycle performance

LIMITATIONS

- ✓ Not designed for severe thermal shock
- ✓ Limited resistance to aggressive point impact
- ✓ Not designed for constant chemical exposure

IDEAL APPLICATIONS

- ✓ Commercial corridors and common areas
- ✓ Light industrial spaces
- ✓ Restrooms and locker rooms
- ✓ Retail and institutional floors

WHEN TO SPEC

- ✓ General-purpose continuous flooring is required
- ✓ Moisture exposure is present but not extreme
- ✓ Aesthetic + durability balance is needed

DURABLE
Engineered for long-term performance in demanding environments.

MOISTURE TOLERANT
Designed to perform in moisture prone substrates.

BEAUTIFUL FINISH
Decorative flake broadcast system with a sleek, consistent look.

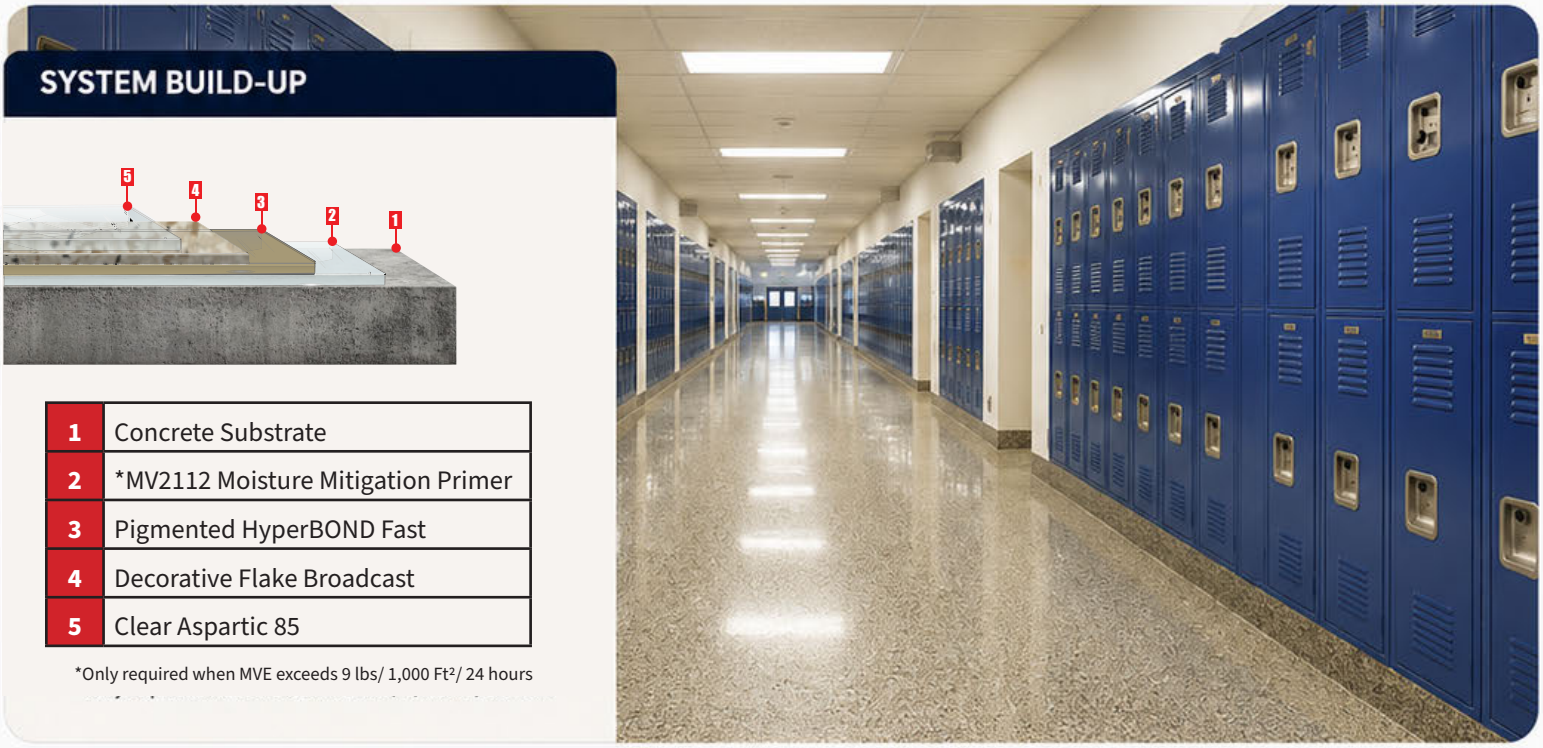
COST-EFFECTIVE
Delivers high performance and value across the lifecycle.

FGP RAPID-CURE FLAKE

FAST-RETURN FLAKE SYSTEM FOR TIME-SENSITIVE INSTALLATIONS

Fast-return flake system for time-sensitive installations.

Accelerated epoxy broadcast system formulated for fast return-to-service, enabling reduced downtime and installation in time-sensitive environments.



SYSTEM BUILD-UP

1	Concrete Substrate
2	*MV2112 Moisture Mitigation Primer
3	Pigmented HyperBOND Fast
4	Decorative Flake Broadcast
5	Clear Aspartic 85

*Only required when MVE exceeds 9 lbs/ 1,000 Ft²/ 24 hours

PERFORMANCE DRIVERS

- ✓ Fast cure for reduced downtime
- ✓ Early return-to-service capability
- ✓ Strong compressive epoxy performance
- ✓ Controlled installation scheduling

LIMITATIONS

- ✓ Shorter working time during installation
- ✓ Not ideal for large open placements without staging
- ✓ May increase installation sensitivity

IDEAL APPLICATIONS

- ✓ Hospitals and healthcare renovations
- ✓ Retail and grocery stores
- ✓ Schools and public facilities
- ✓ Occupied renovation projects

WHEN TO SPEC

- ✓ Shutdown windows are limited
- ✓ Fast project turnover is critical
- ✓ Operations must resume quickly after installation

FAST CURE
Quick return to service reduces downtime.

HIGH PERFORMANCE
Strong chemical and compressive resistance.

SCHEDULING FLEXIBILITY
Enables work in tight timeframes.

DURABLE & RELIABLE
Built for long-term performance.

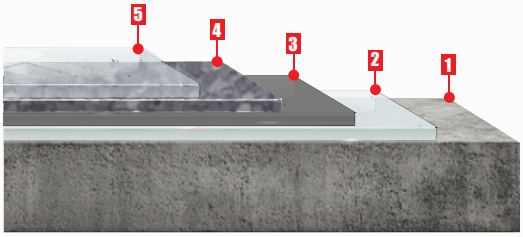
FGP POLYUREA FLAKE

High-performance polyurea flake broadcast system engineered for extreme durability and superior strength in demanding service conditions.

High-tensile system for impact and mechanical loading

Engineered for enhanced flexibility, impact resistance, and superior tensile strength to withstand the toughest environments and demanding service conditions.

SYSTEM BUILD-UP



1	Concrete Substrate
2	*MV2112 Moisture Mitigation Primer
3	Pigmented Polyurea Basecoat
4	Decorative Flake Broadcast
5	Clear Aspartic 85

*Only required when MVE exceeds 3 lbs/ 1,000 Ft²/ 24 hours

PERFORMANCE DRIVERS

- High tensile strength and elongation
- Superior impact and mechanical resistance
- Fast curing with rapid installation cycles
- Excellent thermal movement accommodation

LIMITATIONS

- Higher material sensitivity during installation
- Requires controlled application conditions
- Less forgiving for substrate contamination

IDEAL APPLICATIONS

- Warehouses and logistics centers
- Manufacturing and assembly plants
- Automotive service areas
- High-impact mechanical environments

WHEN TO SPEC

- Impact or dynamic loading is expected
- Floor must handle equipment abuse or drop impact
- Movement or vibration is present

EXTREME STRENGTH
High tensile properties for superior durability under stress.

RAPID INSTALLATION
Fast curing for quick turnaround and minimal downtime.

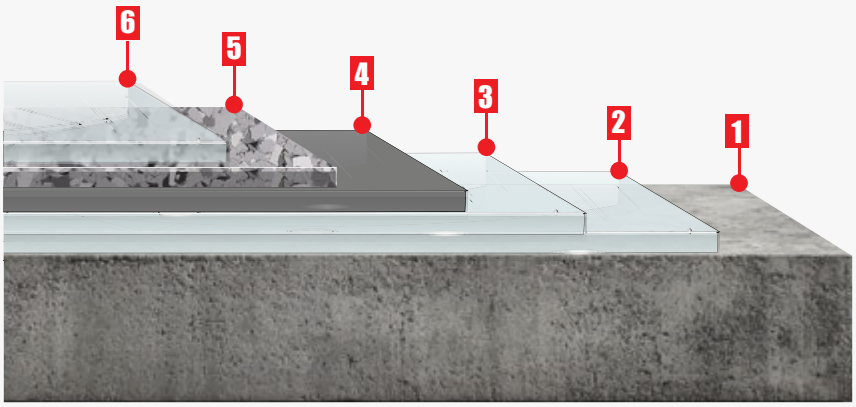
THERMAL STABILITY
Accommodates thermal movement without cracking or failure.

BUILT TO LAST
Engineered for long-term performance in the most demanding environments.

FGP FLEXIBLE FLAKE

Flexible epoxy membrane flake system designed for movement-prone substrates.

Engineered to accommodate substrate movement and before cracks while delivering high-performance durability in dynamic slab conditions.



1	Concrete Substrate
2	*MV2112 Moisture Mitigation Primer
3	HyperFLEX Epoxy Membrane
4	Pigmented HyperFLEX
5	Decorative Flake Broadcast
6	Clear Aspartic 85

*Only required when MVE exceeds 3 lbs/ 1,000 Ft²/ 24 hours

PERFORMANCE DRIVERS

- Crack-bridging epoxy membrane layer
- Substrate movement accommodation
- Enhanced adhesion over marginal slabs
- Stress-relieving system design

LIMITATIONS

- Not a structural repair system
- Limited heavy impact resistance
- Not for severe chemical immersion envirooments

IDEAL APPLICATIONS

- Renovate over existing cracked slabs
- Light industrial retrofit projects
- Commercial slabs with minor movement
- Moisture-prone slab conditions (non-pressurized)

WHEN TO SPEC

- Existing slab has cracking
- Dynamic slab with expected movement
- Need to extend service life of compromised concrete

CRACK-BRIDGING
Built to bridge and protect

MOVEMENT ACCOMMODATION
Flexible system adapts to slab movement

MOISTURE MITIGATION
Helps control moisture vapor transmission

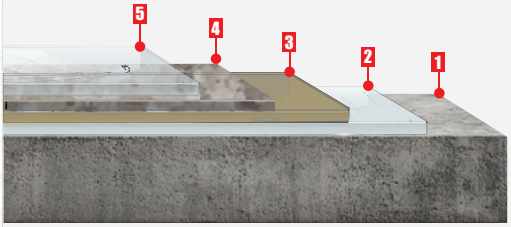
LONG-TERM DURABILITY
Designed for lasting performance

FGP
POLYASPARTIC FLAKE

UV-stable, rapid-curing broadcast system utilizing polyaspartic technology for color retention and exterior or light-exposed applications.

UV-STABLE SYSTEM FOR COLOR RETENTION IN EXPOSED ENVIRONMENTS

SYSTEM BUILD-UP



1	Concrete Substrate
2	*MV2112 Moisture Mitigation Primer
3	Pigmented Aspartic 85 Fast
4	Decorative Flake Broadcast
5	Clear Aspartic 85

*Only required when MVE exceeds 3 lbs/ 1,000 Ft²/ 24 hours

PERFORMANCE DRIVERS

- UV-stable chemistry for color retention
- Fast cure with minimal downtime
- High abrasion resistance
- Excellent stain resistance

LIMITATIONS

- Higher installation sensitivity to conditions
- Limited working time
- Not ideal for high thermal shock environments

IDEAL APPLICATIONS

- Driveways and entries
- Open-air or sun-exposed interiors
- Retail and showroom floors
- Garages and residential applications

WHEN TO SPEC

- UV exposure is primary concern
- Fast installation and return is required
- Aesthetic retention is critical

UV STABLE
Designed to resist yellowing and fading from UV exposure.

RAPID CURE
Quick return to service minimizes downtime and disruption.

ABRASION RESISTANT
Built to withstand heavy traffic and daily wear in demanding spaces.

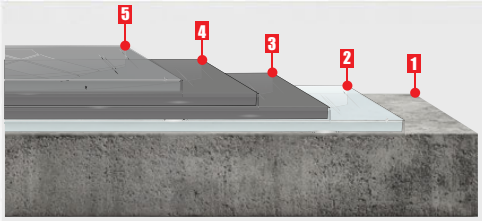
EASY TO MAINTAIN
Seamless, non-porous surface for simple cleaning and upkeep.

FGP SOLID INDUSTRIAL

SOLID EPOXY SYSTEM FOR CHEMICAL & MAINTENANCE EXPOSURE

Seamless, solid-color epoxy system designed for industrial environments requiring chemical resistance, cleanability, and consistent surface performance.

SYSTEM BUILD-UP



1	Concrete Substrate
2	*MV2112 Moisture Mitigation Primer
3	Pigmented DT454 Industrial Epoxy
4	Pigmented DT454 Industrial Epoxy
5	Pigmented Aspartic 85 Slow-Go

*Only required when MVE exceeds 3 lbs/ 1,000 Ft²/ 24 hours

PERFORMANCE DRIVERS

- High compressive epoxy strength
- Seamless hygienic surface
- Chemical resistance to industrial exposure
- Easy maintenance and cleanability

LIMITATIONS

- Not slip resistant without additives
- Can show wear patterns under extreme abrasion
- Limited flexibility on moving slabs

IDEAL APPLICATIONS

- Manufacturing plants
- Chemical storage areas
- Maintenance shops
- General industrial flooring

WHEN TO SPEC

- Chemical resistance is required
- Seamless sanitary surface is needed
- Industrial durability is primary concern

CHEMICAL RESISTANT
Designed to withstand chemical exposure in industrial environments.

SEAMLESS & HYGIENIC
Non-porous surface supports cleanability and infection control.

INDUSTRIAL DURABILITY
High-strength epoxy system built for heavy use and long-term performance.

EASY TO MAINTAIN
Smooth, solid-color surface allows for efficient cleaning and upkeep.

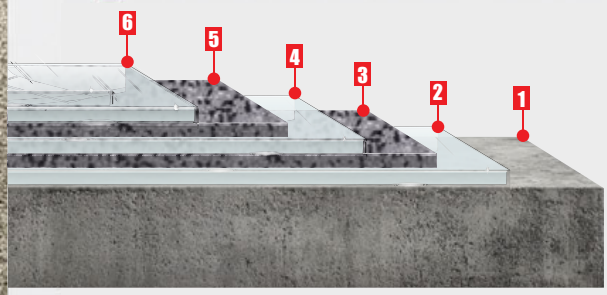
* MV 2112 Moisture Primer is recommended for optimal adhesion and moisture mitigation.

FGP QUARTZ

Decorative quartz broadcast system providing enhanced slip resistance, durability, and aesthetic variation for commercial and institutional environments.

HIGH-TRACTION SYSTEM FOR WET AND SLIP CRITICAL ENVIRONMENTS

SYSTEM BUILD-UP



1	Concrete Substrate
2	Clear HyperREZ UV Epoxy
3	Colored Quartz Broadcast
4	Clear HyperREZ UV Epoxy
5	Colored Quartz Broadcast
6	Clear Aspartic 100

PERFORMANCE DRIVERS

- High slip resistance profile
- Dense abrasion-resistant surface
- Chemical and moisture resistance
- Decorative safety finish

LIMITATIONS

- More difficult to repair invisibly
- Rougher surface affects cleanability vs smooth systems
- Not ideal for decorative architectural finishes

IDEAL APPLICATIONS

- Food and beverage processing
- Commercial kitchens
- Locker rooms and wash areas
- Safety-critical pedestrian zones

WHEN TO SPEC

- Slip resistance is code or safety driven
- Wet processing environments exist
- Hygiene + traction both required

SLIP RESISTANT
Engineered for wet and greasy conditions

ABRASION RESISTANT
Built to withstand heavy traffic

CHEMICAL & MOISTURE RESISTANT
Protects against harsh cleaners

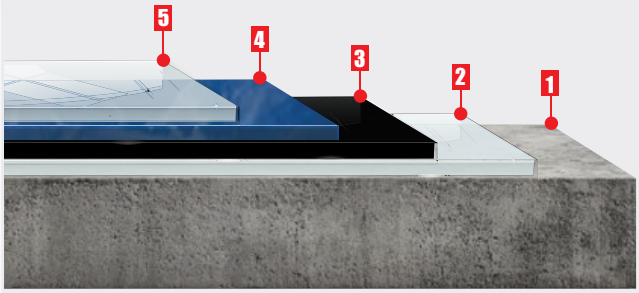
DECORATIVE FINISH
Quartz broadcast for aesthetic variation

FGP METALLIC MARBLE

DECORATIVE SEAMLESS SYSTEM FOR ARCHITECTURAL FINISHES

High-gloss, fluid-applied epoxy system that creates unique, marble-like visual effects for architectural and decorative applications.

SYSTEM BUILD-UP



1	Concrete Substrate
2	*MV2112 Moisture Mitigation Primer
3	Pigmented DT454 Industrial Epoxy
4	HyperFLOW Epoxy w/ Metallic Pigment
5	Clear Aliphatic Urethane

*Only required when MVE exceeds 3 lbs/ 1,000 Ft²/ 24 hours

PERFORMANCE DRIVERS

- Seamless decorative epoxy flow
- Unique architectural visual effects
- Moderate chemical resistance
- High-end aesthetic presentation

LIMITATIONS

- Lower abrasion resistance than industrial systems
- Not intended for heavy traffic environments
- Aesthetic variability must be accepted

IDEAL APPLICATIONS

- Retail showrooms
- Hospitality and lobbies
- Offices and design spaces
- Feature flooring installations

WHEN TO SPEC

- Visual impact is primary driver
- Light to moderate traffic conditions exist
- Architectural flooring is required

HIGH-GLOSS FINISH
Luxury look with marble-like effects

SEAMLESS DESIGN
Flowing, continuous surface with no joints

CHEMICAL RESISTANT
Resists common spills and cleaners

DESIGN FLEXIBILITY
Endless color and effect combinations

PROTECTIVE TOPCOAT
Durable, UV stable urethane topcoat

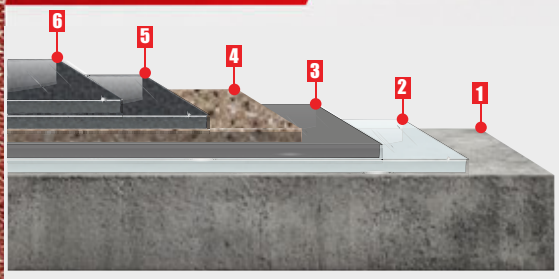
FGP HIGH TRAFFIC

BUILT TO WITHSTAND.
DESIGNED TO PERFORM.

HIGH-ABRASION EPOXY SYSTEM FOR CONTINUOUS WEAR ENVIRONMENTS

Heavy-duty resinous flooring system engineered to withstand continuous traffic, abrasion, and mechanical wear in high-demand environments.

SYSTEM BUILD-UP



1	Concrete Substrate
2	*MV2112 Moisture Mitigation Primer
3	Pigmented DT454 Industrial Epoxy
4	50/70 Mesh Silica Sand Broadcast
5	Pigmented DT454 Industrial Epoxy
6	Pigmented Aspartic 85 Slow-Go

*Only required when MVE exceeds 3 lbs/ 1,000 Ft²/ 24 hours

PERFORMANCE DRIVERS

- High abrasion resistance epoxy matrix
- Improved wear life under continuous traffic
- Strong compressive strength performance
- Durable maintenance-friendly surface

LIMITATIONS

- Not designed for thermal shock
- Limited flexibility under slab movement
- Requires good substrate preparation

IDEAL APPLICATIONS

- Warehouses and distribution centers
- Hallways and corridors
- Manufacturing support areas
- Institutional high-use zones

WHEN TO SPEC

- Continuous traffic or rolling loads expected
- Long-term wear resistance is priority
- Industrial durability required without urethane cement

ABRASION RESISTANT
Engineered for high wear and impact

TRAFFIC READY
Built for continuous traffic environments

COMPRESSIVE STRENGTH
Strong performance under heavy loads

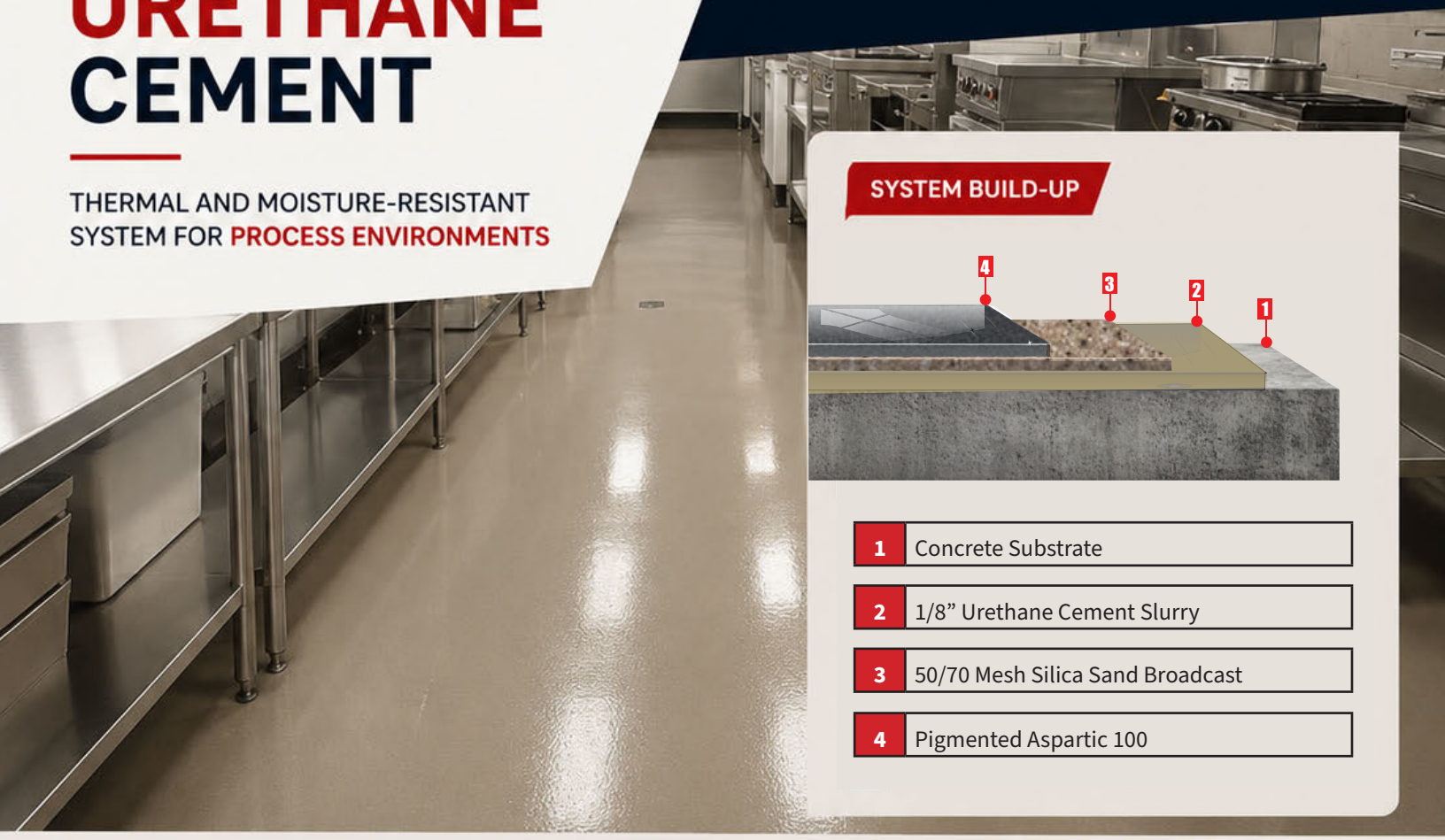
EASY MAINTENANCE
Durable surface that's easy to clean

LONG-TERM DURABILITY
Reliable protection that lasts

FGP MEDIUM-DUTY URETHANE CEMENT

THERMAL AND MOISTURE-RESISTANT SYSTEM FOR **PROCESS ENVIRONMENTS**

Thermal shock-resistant urethane cement system designed for moderate-duty environments requiring moisture tolerance, durability, and hygienic performance.



SYSTEM BUILD-UP

1	Concrete Substrate
2	1/8” Urethane Cement Slurry
3	50/70 Mesh Silica Sand Broadcast
4	Pigmented Aspartic 100

PERFORMANCE DRIVERS

- Thermal shock resistance
- Moisture and vapor tolerance
- Chemical and washdown resistance
- Hygienic performance under wet use

LIMITATIONS

- Moderate abrasion vs heavy-duty systems
- Higher cost than epoxy systems
- Requires proper installation thickness control

IDEAL APPLICATIONS

- Food processing areas
- Commercial kitchens
- Beverage production
- Wet processing facilities

WHEN TO SPEC

- Thermal cycling is present
- Frequent washdown occurs
- Moisture or vapor transmission is a concern

THERMAL RESISTANCE
Withstands temperature fluctuations and shock

MOISTURE TOLERANT
Protects against moisture and vapor intrusion

CHEMICAL RESISTANT
Resists common cleaning agents and chemicals

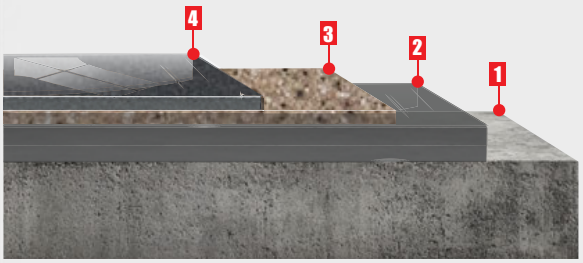
HYGIENIC FINISH
Seamless, easy to clean and sanitize

FGP
HEAVY-DUTY URETHANE CEMENT

EXTREME-DUTY SYSTEM FOR THERMAL SHOCK AND CHEMICAL EXPOSURE

High-build urethane cement system engineered for extreme service conditions including heavy impact, thermal cycling, and aggressive cleaning or chemical exposure.

SYSTEM BUILD-UP



1	Concrete Substrate
2	1/4” Urethane Cement Trowel
3	50/70 Mesh Silica Sand Broadcast
4	Pigmented Aspartic 100

PERFORMANCE DRIVERS

- Extreme thermal shock resistance
- High chemical resistance performance
- Heavy impact and mechanical durability
- Long-term service in aggressive environments

LIMITATIONS

- Higher installation cost and complexity
- Requires experienced installer execution
- Over-spec for light commercial environments

IDEAL APPLICATIONS

- Industrial processing plants
- Freezer and hot wash environments
- Chemical processing areas
- Heavy-duty food production facilities

WHEN TO SPEC

- Extreme service conditions exist
- Thermal + chemical + impact exposure combined
- Long-term industrial durability is critical

EXTREME DURABILITY
Built for heavy impact and thermal cycling

CHEMICAL RESISTANT
Withstands aggressive cleaning and exposure

LONG-TERM PERFORMANCE
High-build system for extended service life

SAFETY FOCUSED
Optional traction for slip resistance

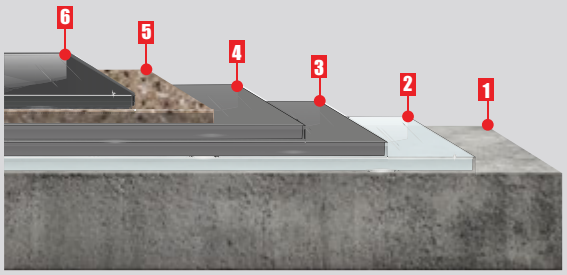
FGP
FLEXIBLE TRAFFIC

FLEXIBLE SYSTEM FOR ACTIVE SLAB CONDITIONS UNDER TRAFFIC

FLEXIBLE EPOXY SYSTEM FOR TRAFFIC-BEARING SURFACES

Flexible epoxy system designed for traffic-bearing surfaces requiring crack accommodation, durability, and long-term performance under movement and load.

SYSTEM BUILD-UP



1	Concrete Substrate
2	*MV2112 Moisture Mitigation Primer
3	HyperFLEX Epoxy Membrane
4	HyperFLEX Epoxy Membrane
5	20/40 Mesh Silica Sand Broadcast
6	Pigmented Aspartic 100

*Only required when MVE exceeds 3 lbs/ 1,000 Ft²/ 24 hours

PERFORMANCE DRIVERS

- Crack isolation and movement accommodation
- Stress-relieving membrane performance
- Traffic-bearing durability over compromised slabs
- Extended service life for existing concrete

LIMITATIONS

- Not a structural slab repair system
- Limited heavy chemical immersion resistance
- Not intended for extreme impact environments

IDEAL APPLICATIONS

- Renovation over cracked slabs
- Parking structures and corridors
- Light industrial retrofit conditions
- Facilities with ongoing slab movement

WHEN TO SPEC

- Existing slab movement or cracking present
- Surface requires membrane to protect environments below
- Need to extend life of compromised substrate

CRACK-BRIDGING
Accommodates movement and resists cracking

TRAFFIC READY
Built for sustained movement and load

LONG-TERM DURABILITY
Extends service life of existing concrete

EASY TO MAINTAIN
Seamless surface is Easy to clean

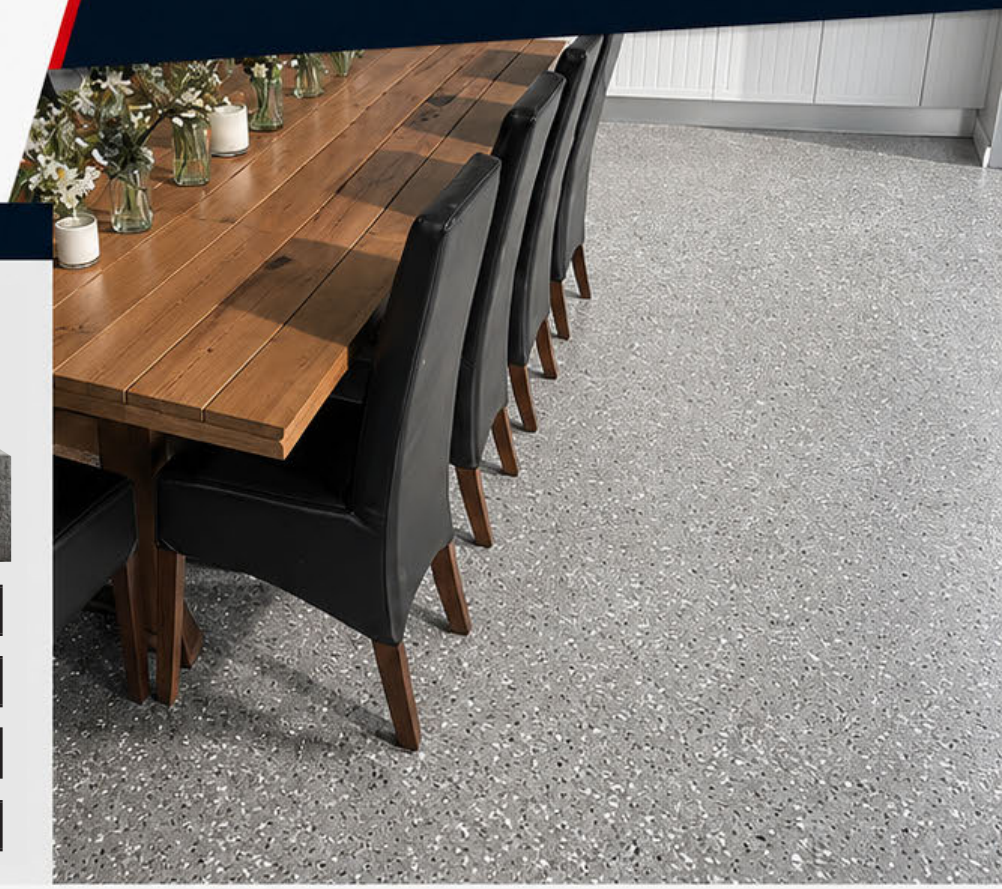
PROVEN PERFORMANCE
Engineered for reliable, long-term protection

FGP
UC FLAKE

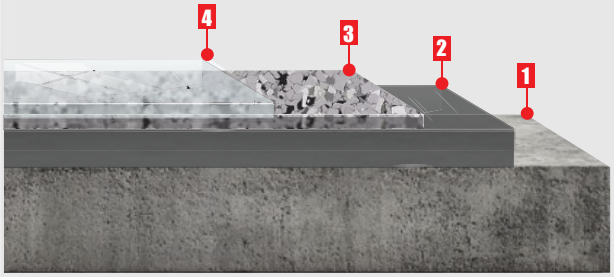
INDUSTRIAL-GRADE DECORATIVE
URETHANE CEMENT FLAKE SYSTEM

Decorative urethane cement system for thermal, chemical, and washdown environments.

High-build urethane cement broadcast system with decorative flake finish designed for environments requiring thermal shock resistance, chemical durability, and hygienic performance.



SYSTEM BUILD-UP



1	Concrete Substrate
2	1/4” Urethane Cement Trowel
3	Decorative Flake Broadcast
4	Clear Aspartic 85

PERFORMANCE DRIVERS

- Urethane cement matrix for thermal shock resistance
- High chemical resistance to cleaning agents, fats, and acids
- Moisture-tolerant system with strong substrate adhesion
- Seamless, monolithic flake broadcast for durability and cleanability
- High impact and abrasion resistance under continuous service

LIMITATIONS

- Higher installation complexity and cost compared to epoxy systems
- Limited decorative variation compared to standard flake systems
- Extended cure time vs. fast-cure resin systems
- Not intended for substrates with significant structural movement

IDEAL APPLICATIONS

- Commercial kitchens and institutional food service
- Food and beverage processing areas
- Cafeterias and dining facilities
- Schools, universities, and dormitory common areas
- Locker rooms, restrooms, and washdown areas

WHEN TO SPEC

- Thermal cycling and washdown conditions are present
- Chemical resistance and hygiene are critical
- Decorative finish is desired in a urethane cement system
- Long-term durability under continuous service is required

THERMAL SHOCK RESISTANT
Engineered for extreme temperature fluctuations

CHEMICAL RESISTANT
Withstands exposure to harsh chemicals, fats, and acids

DECORATIVE DURABILITY
Seamless flake finish for long-lasting performance

HYGIENIC & EASY TO CLEAN
Seamless surface supports a clean, sanitary environment

LONG-TERM PERFORMANCE
Built for continuous service in demanding environments

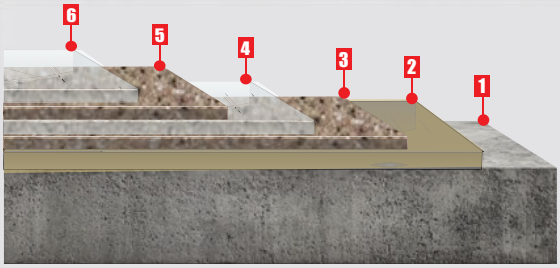
FGP
UC QUARTZ

INDUSTRIAL-GRADE DECORATIVE
URETHANE CEMENT QUARTZ SYSTEM

High-build urethane cement system for severe thermal and chemical environments

High-build urethane cement system broadcast with quartz aggregate designed for maximum slip resistance, durability, and performance in wet and aggressive service conditions.

SYSTEM BUILD-UP



1	Concrete Substrate
2	1/8” Urethane Cement Slurry
3	Colored Quartz Broadcast
4	Clear HyperREZ UV Epoxy
5	Colored Quartz Broadcast
6	Clear Aspartic 100

PERFORMANCE DRIVERS

- Quartz aggregate broadcast for high traction and slip resistance
- Superior thermal shock resistance under rapid temperature change
- Extremely high chemical resistance to aggressive environments
- High compressive strength and abrasion resistance
- Moisture-tolerant system with strong adhesion

LIMITATIONS

- Rougher surface profile may increase cleaning effort
- Higher installation cost and system thickness
- Limited aesthetic flexibility compared to flake or decorative systems
- Requires experienced installers for proper placement and finish

IDEAL APPLICATIONS

- Food processing and manufacturing facilities
- Meat, poultry, seafood, and dairy plants
- Breweries, wineries, and beverage production
- Pharmaceutical and sanitary processing areas
- Washdown zones, sanitation rooms, and wet production floors

WHEN TO SPEC

- Slip resistance is critical in wet environments
- Severe thermal shock and aggressive cleaning are present
- Maximum durability and chemical resistance are required
- Safety and long-term performance outweigh aesthetic needs

SLIP RESISTANT
Quartz broadcast for maximum traction and safety

THERMAL SHOCK RESISTANT
Built to withstand rapid temperature changes

CHEMICAL RESISTANT
Withstands aggressive cleaning agents, acids, and solvents

BUILT TO LAST
High compressive strength and abrasion resistance

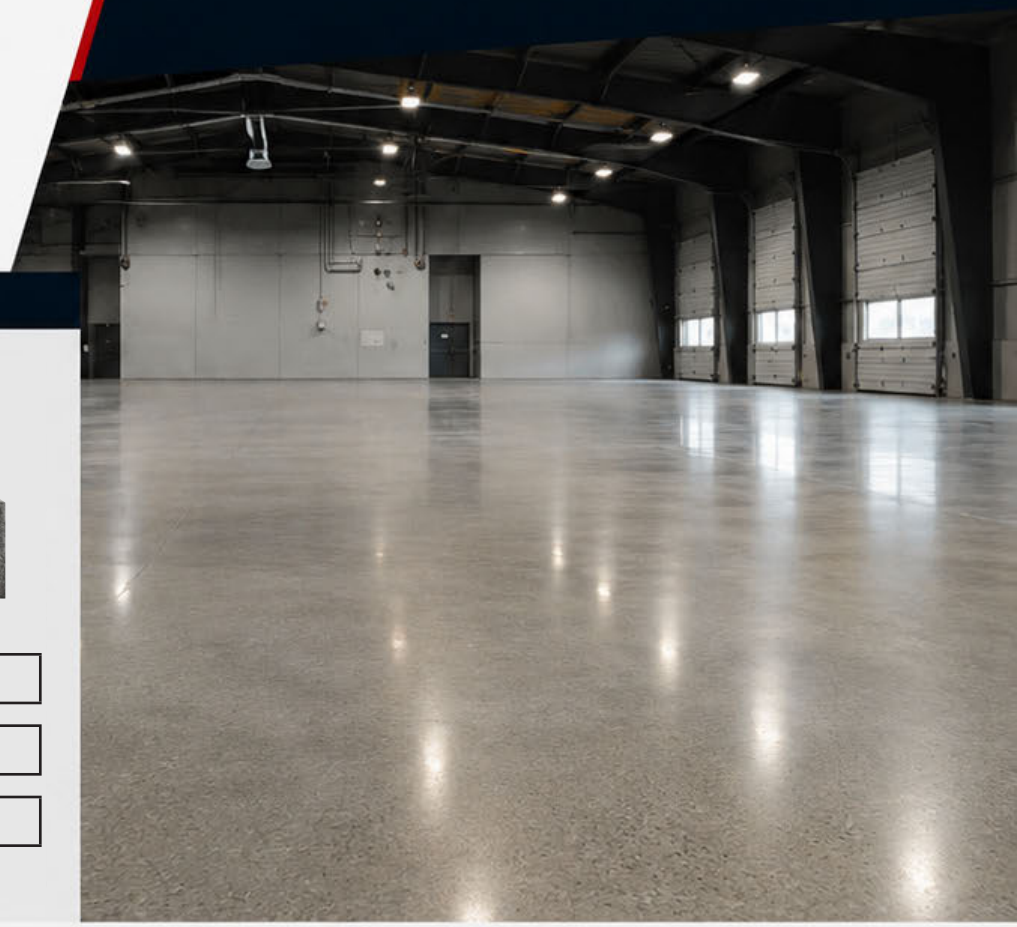
WET ENVIRONMENT READY
Moisture-tolerant with strong adhesion

FGP GRIND & SEAL

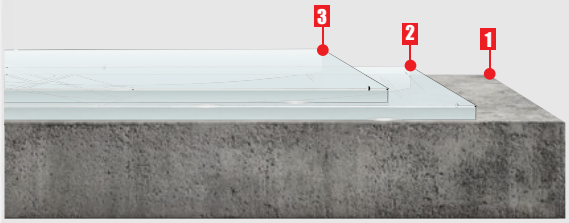
SEALED CONCRETE PROTECTIVE SURFACE SYSTEM

Mechanically ground concrete finished with a protective sealer for improved durability, stain resistance, and appearance.

A cost-effective alternative to polished concrete for light to medium traffic areas.



SYSTEM BUILD-UP



1	Concrete Substrate
2	Clear ZioTHANE WB
3	Clear ZioTHANE WB

PERFORMANCE DRIVERS

- Mechanically ground concrete substrate
- Dual-coat water-based urethane protection
- Breathable, low-build surface system
- Cost-efficient installation and lifecycle value

LIMITATIONS

- Limited chemical resistance vs. resinous systems
- Not suitable for heavy impact or forklift traffic
- Aesthetic variability due to natural concrete surface
- Requires proper substrate condition for performance consistency

IDEAL APPLICATIONS

- Retail and commercial interiors
- Light-duty warehouses and storage areas
- Office spaces and showrooms
- Big-box retail and tenant improvements

WHEN TO SPEC

- Budget-driven projects requiring low installed cost
- Slabs requiring vapor permeability / breathability
- Desire to retain natural concrete appearance
- Projects where high-build resinous systems are not required

COST-EFFECTIVE
Affordable alternative to polished concrete

STAIN RESISTANT
Sealed surface resists stains and moisture

BREATHABLE
Allows moisture vapor to escape

QUICK TURNAROUND
Faster installation with minimal downtime

NATURAL APPEARANCE
Enhances the look of natural concrete

PERFORMANCE MATRIX

SYSTEM VS PERFORMANCE

Compare FGP systems across key performance attributes to identify the right solution for your environment and project requirements.

PERFORMANCE SCALE

Poor · Fair · Good · Very Good · Excellent

SYSTEM	ABRASION RESISTANCE	CHEMICAL RESISTANCE	THERMAL RESISTANCE	IMPACT RESISTANCE	SLIP RESISTANCE	FLEXIBILITY / MOVEMENT ACCOMMODATION
FGP Flake System	Very Good	Very Good	Poor	Good	Good	Poor
FGP Rapid-Cure Flake System	Very Good	Very Good	Poor	Good	Good	Poor
FGP Polyurea Flake System	Very Good	Very Good	Good	Excellent	Good	Very Good
FGP Polyaspartic Flake System	Very Good	Very Good	Fair	Very Good	Good	Fair
FGP Flexible Flake System	Very Good	Very Good	Good	Excellent	Good	Excellent
FGP Solid Industrial System	Good	Very Good	Poor	Good	Poor	Poor
FGP Quartz System	Excellent	Very Good	Good	Very Good	Excellent	Poor
FGP High Traffic System	Excellent	Good	Good	Very Good	Very Good	Poor
FGP Metallic Marble System	Fair	Fair	Poor	Good	Poor	Poor
FGP Medium Duty Urethane Cement System	Excellent	Excellent	Very Good	Very Good	Excellent	Good
FGP Heavy-Duty Urethane Cement System	Excellent	Excellent	Excellent	Excellent	Excellent	Good
FGP UC Flake System	Very Good	Very Good	Very Good	Very Good	Good	Good
FGP UC Quartz System	Excellent	Very Good	Excellent	Excellent	Excellent	Good
FGP Flexible Traffic System	Excellent	Good	Good	Excellent	Very Good	Excellent
FGP Grind & Seal System	Poor	Fair	Poor	Fair	Poor	Poor

NOTE:

Performance ratings are generalized for comparison purposes. Actual field performance may vary based on substrate condition, installation quality, and service environment.

BEST PRACTICE:

Always consult project specific conditions and technical data sheets for final system selection.

ASTM PERFORMANCE DATA

SYSTEM	COMPRESSIVE STRENGTH	TENSILE STRENGTH	ELONGATION	ABRASION LOSS	ADHESION
FGP Flake System	15,121 psi	9,300 psi	5%	20 mg	450 psi
FGP Rapid-Cure Flake System	15,121 psi	9,300 psi	2.4%	20 mg	450 psi
FGP Polyurea Flake System	N/A	2,700 psi	65%	20 mg	500 psi
FGP Polyaspartic Flake System	12,000 psi	3,900 psi	2.4%	20 mg	400 psi
FGP Flexible Flake System	N/A	2,450 psi	150%	20 mg	400 psi
FGP Solid Industrial System	12,450 psi	9,400 psi	5%	34 mg	450 psi
FGP Quartz System	11,200 psi	7,100 psi	5%	36 mg	400 psi
FGP High Traffic System	12,400 psi	9,400 psi	5%	36 mg	450 psi
FGP Metallic Marble System	9,000 psi	5,200 psi	30%	20 mg	450 psi
FGP Medium-Duty Urethane Cement	8,368 psi	1,547 psi	9%	20 mg	450 psi
FGP Heavy-Duty Urethane Cement	8,570 psi	1,568 psi	5%	20 mg	450 psi
FGP UC Flake System	8,570 psi	1,568 psi	9%	20 mg	450 psi
FGP UC Quartz System	8,368 psi	1,547 psi	5%	20 mg	450 psi
FGP Flexible Traffic System	N/A	2,450 psi	150%	20 mg	400 psi
FGP Grind & Seal System	3,500–5,000 psi*	N/A	N/A	21 mg	320 psi

Grind & Seal reflects substrate

Refer to System Sheets for complete ASTM Performance Data

PERFORMANCE IS NOT A CLAIM.

IT IS MEASURABLE.

BUILT ON DATA. PROVEN IN THE FIELD.

All values are typical laboratory results. Actual field performance may vary based on substrate condition, installation methods, and service environment.

CONSULT PROJECT SPECIFIC CONDITIONS

Always consult project specific conditions and technical data sheets for final system selection.

ENGINEERED FOR PERFORMANCE. BUILT FOR REAL CONDITIONS.

High-performance flooring and coating systems designed to protect, perform, and last.

BUILT TO PROTECT

Engineered systems that resist impact, abrasion, chemicals, and daily wear.

BUILT TO PERFORM

High-performance solutions designed for demanding environments and nonstop operation.

BUILT TO LAST

Durable, long-lasting protection that reduces downtime and lifecycle costs.

BUILT FOR YOU

Backed by expertise, service, and a commitment to your success.

FLOORGUARDPRODUCTS.COM