



## The First Zero Isocyanate, Ultra-Low VOC GREEN EPOXY-URETHANE™



### Multi-Application Floor Coating

### Improved properties over conventional Epoxy & PU:

- ◆ 45-60% better strength
- ◆ 50% better adhesion
- ◆ Superior chemical & water resistance
- ◆ Curing in just 4-6 hours
- ◆ Competitive pricing
- ◆ Ultra-Low VOCs and NO Isocyanates
- ◆ Applicator's #1 choice for self-leveling flowability, ease of application & low to no odor

### Click below to learn about GSPEC® application & other info:

- ◆ [Polished, Self-Leveling Cement](#)
- ◆ [Self-Leveling Epoxy-Urethane Cement](#)
- ◆ [Resinous, Monolithic Coatings](#)
- ◆ [GSPEC Application Examples](#)
- ◆ [GSPEC VS. Self-Leveling Cement & Terrazzo Comparisons](#)



# POLISHED GSPEC® Epoxy-Urethane Cement

The first self-leveling “Green” Epoxy-Urethane cement overlay with a natural polished concrete look, the durability of a urethane and the chemical resistance of an epoxy, that is more crack and stain-resistant than standard self-leveling cement and is manufactured with ULTRA-LOW VOCs and ZERO toxic isocyanates.

POLISHED GSPEC is a mixture of GSPEC resin and GSPEC cement. The resin used in POLISHED GSPEC is **45-60% stronger** than typical epoxies and urethanes and has **50% better adhesion** than most urethanes. POLISHED GSPEC will provide you with a beautiful, decorative, extremely resilient, chemical and water-resistant floor for many years. The system is typically laid at a thickness of 1/4” - 3/8”.

## Advantages

- ◆ Decorative high build, high strength
- ◆ Polishable, natural cement look
- ◆ Superior stain, water and chemical resistance
- ◆ Elastic & microfracture resistant
- ◆ Zero isocyanate & Ultra-Low VOCs
- ◆ Naturally anti-microbial
- ◆ 24-hour rapid gauge rake application
- ◆ No color drift
- ◆ Competitively priced

## Suggested Applications

- ◆ Retail & commercial buildings
- ◆ Airports
- ◆ Public institutions
- ◆ Hotels
- ◆ Lobbies
- ◆ Shopping malls
- ◆ Hospitals
- ◆ Schools

**Polished GSPEC  
Cement vs. Self-  
Leveling Cement  
& Terrazzo (click  
to learn more)**

## Colors


Available in 10 different variations or custom colored

10 variations include the following 5 colors without aggregates and the same colors with aggregates (AG):

- ◆ Carmel Beach White
- ◆ Shelter Cove Light Grey
- ◆ Shelter Cove Dark Grey
- ◆ Shelter Cove Charcoal
- ◆ Monterey Beach Sand



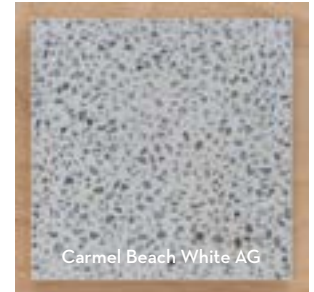
**HIGH CRACK,  
WATER & CHEMICAL  
RESISTANCE**



**BEAUTIFUL, NATURAL  
POLISHED CONCRETE  
LOOK**

# GSPEC® Polished Epoxy-Urethane Cement vs. Self-Leveling Cement & Terrazzo

PROPERTY/BENEFIT	GSPEC®		SELF-LEVELING CEMENT	
	✓	YES		
Chemical, Stain & Water Resistant	✓	YES		no
Resistant to Microfracture	✓	YES		no
Resistant to Color Drift	✓	YES		no
Elastic	✓	YES		no
Polishable	✓	YES	✓	yes
Zero Isocyanates, Ultra-Low VOC	✓	YES	✓	yes
Natural Concrete Look	✓	YES	✓	yes
Easy Application w/ Guage Rake	✓	YES	✓	yes
24 Hour Rapid Application	✓	YES	✓	yes



PROPERTY/BENEFIT	GSPEC		TERRAZZO	
	✓	YES		
Natural Concrete Look	✓	YES		no
Self-Leveling	✓	YES		no
Easy Application w/ Gauge Rake	✓	YES		no
Typically Available Beyond Terrazzo Union Members	✓	YES		no
Chemical, Stain & Water Resistant	✓	YES	✓	yes
Resistant to Microfracture	✓	YES	✓	yes
Resistant to Color Drift	✓	YES	✓	yes
Zero Isocyanates, Ultra-Low VOC	✓	YES	✓	yes



Sample Polished GSPEC Color Variations



# SMOOTH & TEXTURED GSPEC® Epoxy-Urethane Cement

GSPEC Epoxy-Urethane Cement Flooring is an extremely durable and functional, self-leveling, monolithic Epoxy-Urethane cement floor coating system with a smooth or textured finish that doesn't need to be polished and is self-priming. It has a resinous, glossy look and is used to protect industrial and commercial floors.

SMOOTH GSPEC is a mixture of GSPEC resin and GSPEC cement. TEXTURED GSPEC is a mixture of GSPEC resin and GSPEC cement with sand, paint chips or colored quartz on top to provide slip-resistance. The resin used in GSPEC Epoxy-Urethane Cement is **45-60% stronger** than typical epoxies and urethanes and has **50% better adhesion** than most urethanes. GSPEC Epoxy-Urethane Cement will provide you with an extremely resilient and chemical resistant floor for many years. The system is typically laid at a thickness of 1/8" - 1/4".

## GSPEC Advantages

- ◆ Strength to handle heavy loads and traffic
- ◆ Superior stain, water and chemical resistance
- ◆ High flexibility and resistance to cracking
- ◆ Advanced abrasion and impact resistance
- ◆ Zero toxic isocyanates & Ultra-Low VOCs
- ◆ Super flowable material for easy application
- ◆ Rapid 12-24 hr. cure & quick return to service
- ◆ Competitively priced

## Suggested Applications Industrial & Commercial Buildings

- ◆ High traffic zones
- ◆ Public institutions
- ◆ Driveways
- ◆ Commercial walkways
- ◆ Schools & kitchens
- ◆ Hospitals

## Colors

- ◆ SMOOTH GSPEC: Grey, Charcoal, White, Sand, Custom Colors
- ◆ TEXTURED GSPEC: Grey, White, Paint Chips, Colored Quartz (20 colors), Custom Colors

### HIGH CHEMICAL RESISTANCE

to withstand hazardous chemicals

High Compression Strength:  
Resin + sand @ 1/8"-1/4" = 6500-8500 psi  
(estimated)

Resin + sand @ 3/8" = 9000-11000 psi  
(estimated)

### SAFETY STANDARD COMPLIANT

for kitchens, schools & clean rooms

High Tensile Strength:  
Resin = 5700-7100 psi (ASTM D638)

# RESINOUS GSPEC® Floor Coatings

RESINOUS GSPEC Floor Coating is an extremely durable and functional, self-leveling, monolithic Epoxy-Urethane resinous floor coating that can be applied in multiple variations including as a TEXTURED, slip-resistant flooring using sand, colored quartz and/or paint chips OR as a SMOOTH, glossy floor using just resin. It is used to protect industrial and commercial floors and does not require polishing.

The product is **45-60% stronger** than typical epoxies and urethanes, has **50% better adhesion** than most urethanes and is self-priming. It can be laid directly on well prepared concrete and will provide you with an extremely abrasive and chemical resistant floor for many years. The system is typically laid at a thickness of 8-20 mils.

## Advantages

- High strength & durability for heavy traffic, wear and tear
- Highly resistant to cracking & staining
- Superior abrasion and impact resistance
- Superior stain and chemical resistance
- Zero isocyanates & Ultra-Low VOCs
- Super flowable material for ease of application
- Rapid 12-24 hour cure & quick return to service
- Competitively priced

## Suggested Applications Industrial & Commercial Buildings

- High traffic zones
- Locations with high safety and health standards
- Food packaging
- Clean rooms
- Schools and public buildings
- Warehouses
- Educational Institutions

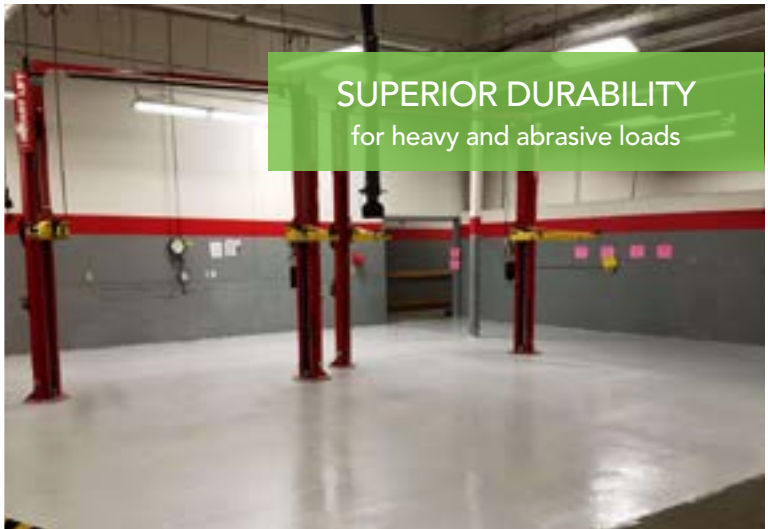
## Color Variations

- Grey
- White
- Clear
- Paint Chips
- Colored Quartz (20 Colors)
- Custom Colors

CONTACT YOUR GSPEC SALES REP TO LEARN MORE ABOUT CUSTOM COLOR, SAND, PAINT CHIP OR QUARTZ COLOR SOURCING AND OPTIONS.



**LOW IMPACT**  
for stringent  
sanitation standards



**SUPERIOR DURABILITY**  
for heavy and abrasive loads

# GSPEC® Property Comparison Charts

GSPEC's unique chemistry yields 45-60% better tensile and flexural strength than competing epoxy-based flooring products used for Self-Leveling Cement or Terrazzo applications, resulting in superior crack resistance.

## GSPEC TENSILE & FLEXURAL STRENGTH VS. COMPETING EPOXY & PU COMPARISON CHART

PROPERTY	UNIT	PRODUCTS	Value Avg	GSPEC Value Avg	GSPEC Advantage
Tensile Strength  (ASTM D638-10)	psi	<b>Leading Epoxy Terrazzo</b>			
		Epoxy Product A	3400		
		Epoxy Product B	4800		
		Epoxy Product C	3000		
		Epoxy Product D	3000		
		Epoxy Product E	3500		
<b>Tensile Strength Avg.</b>			<b>3540</b>	<b>5650</b>	<b>60%</b>
Tensile Strength	psi	<b>Polyurethane Top Coats</b>			
(ASTM D638-10)		PU Product F	5300		
		PU Product G	1600		
		PU Product H	3750		
		PU Product I	4800		
		<b>Tensile Strength Avg.</b>	<b>3863</b>		
Flexural Strength  (ASTM D790)	psi	<b>Leading Epoxy Terrazzo</b>			
		Epoxy Product B	4500		
		Epoxy Product C	6500		
		Epoxy Product D	4500		
		Epoxy Product E	6500		
		Epoxy Product J	4100		
<b>Avg. Flexural Strength</b>			<b>5220</b>	<b>8101</b>	<b>55%</b>

The tight bonds within its chemical structure also make GSPEC highly water resistant, ensuring that GSPEC flooring systems will adhere to bare concrete with a high tolerance to moisture vapor emission problems when applied appropriately.

# GSPEC® Property Comparison Charts

GSPEC has over 50% better adhesion as well as superior chemical resistance compared to conventional epoxy and urethane – making it one of the most durable, flexible, eco-friendly flooring products available.

## GSPEC ADHESION COMPARISON CHART

PROPERTY	UNIT	PRODUCTS	Value Avg	GSPEC Value Avg	GSPEC Advantage
Adhesion  (ASTM 7234-12)	psi	<b>Leading Epoxy Terrazzo</b>			
		Epoxy Product J (ACI Comm #403)	400		
		Epoxy Product B (ASTM C-1583-04/ACI)	350		
		Epoxy Product C (ACI Comm #403)	300		
		Epoxy Product D (ACI 503R)	300		
		Epoxy Product E	350		
<b>Adhesion Avg.</b>			<b>340</b>	<b>509.1</b>	<b>50%</b>
Adhesion	psi	<b>Polyurethane Top Coats</b>			
(ASTM 7234-12)		PU Product K	5400		
		PU Product L (ASTM 4541)	300		
		PU Product M (ASTM D 903)	300		
		Product F (ASTM 4541)	300		
		<b>Adhesion Strength Avg</b>	<b>325</b>		

## GSPEC CHEMICAL RESISTANT COMPARISON CHART

Chemical	Product	% Exposed to	Days Exposed	Result: % Weight Loss	Product	% Exposed to	Days Exposed	Result
Tetrachloro-ethylene	GSPEC	99%	15	0.16%	PU Product N	100%	1	Not Recommended
					PU Product O	100%	3	Splash & Spill Only
Sulfuric Acid	GSPEC	40%	15	0.8%	PU Product N	50%	1	Only Suitable for Occasional Spills
					PU Product O	10%	7	Exposure max 7 days
Chloride Acid	GSPEC	15%	15	0.9%	PU Product N	15%	1	Good (Below Excellent)
					PU Product O	10%	7	Exposure max 7 days
Methylbenzoate	GSPEC	99%	15	4.0%	No Comps			
Phosphoric Acid	GSPEC	35%	15	7.0%	PU Product N	up to 50%	1	Only Suitable for Occasional Spills
					PU Product O	20%	7	Exposure max 7 days
Ethanol	GSPEC	99%	15	8.0%	PU Product P	100%	1	Softens
Sodium Hydroxide	GSPEC	10%	1	0.0%	PU Product P	5%	1	No Effect

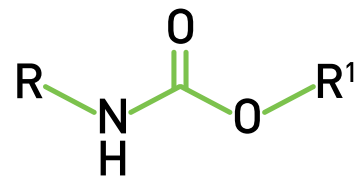


# GREEN EPOXY-URETHANE FLOORING

Capitol Construction is a Qualified Applicator for the first ever EPA Award winning ZERO Isocyanate, ULTRA-LOW VOC “Green” Epoxy-Urethane floor coatings (GSPEC) that have superior properties compared to conventional epoxy and urethane-based flooring.

GSPEC technology combines the chemical resistance and hardness of an epoxy and the abrasion resistance and elasticity of a urethane into one product that can be used in multiple protective flooring applications, costs less than most urethanes and is price competitive with typical epoxies.

GSPEC’s unique properties come from a patented process that creates urethane groups within the chemical structure of its hardener with ZERO toxic isocyanates used in conventional polyurethane. These urethane structures are what give GSPEC greater strength and adhesion properties compared to other epoxy and PU products.



GSPEC - 4 Applications	Application Examples
GSPEC Polished Cement	<ul style="list-style-type: none"> <li>Commercial buildings</li> <li>Airport &amp; train stations</li> <li>Shopping &amp; retail stores</li> <li>Hotels</li> <li>Public lobbies</li> <li>Educational institutions</li> </ul>
GSPEC Epoxy-Urethane Cement (Smooth or Textured)  GSPEC Resinous Coatings (Smooth or Textured)	<ul style="list-style-type: none"> <li>Industrial &amp; commercial buildings</li> <li>High foot &amp; forklift traffic zones</li> <li>Clean rooms &amp; kitchens</li> <li>Heavy chemical washdown</li> <li>Food packaging</li> </ul>
GSPEC Grout Coat or Crack Repair	All of the above