

ProSpec[®] Concrete Repair & Restoration



prospec.com



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ProSpec[®]

Our Story

The ProSpec Story — Oldcastle, Bonsal American and ProSpec[®]

Imagine a company capable of providing the modern building materials needed to build a community, even the bridges and highways to get you there. You have just imagined Oldcastle.®

We are North America's largest manufacturer of building products. The Oldcastle portfolio provides a breadth of experience and brand leadership across numerous building material categories. With over \$10 billion in North American sales, we have the financial strength and commitment to be a leader in every category in which we compete. One of these categories includes cementitious bagged products produced by Bonsal American.

Bonsal American, founded in 1895 as W.R. Bonsal & Co., was initially a contractor and supplier to the railroad. In 1947, Bonsal began producing Sakrete and other top quality building products. Bonsal American also manufacturers the ProSpec branded product portfolio. We stand firm in our commitment to produce the finest quality products with consistent performance. This commitment gives our customers and the contractors



who use our products the peace of mind that they are getting trusted, quality products.

ProSpec is the professionally specified brand of Tile & Stone Installation Systems, Floor Preparation Systems and Concrete Repair & Restoration products. The business has 50 years of experience producing quality tile grouts and tile setting mortars and over 30 years of producing concrete repair and selfleveling products. This is proven performance you can trust.

We have an expert technical services group that handles all inquiries regarding ProSpec products and their related applications. Our

support staff has the hands-on experience and technical background to address any needs you may have, so please don't hesitate to contact us.







The ProSpec Product Portfolio

ProSpec offers a broad range of cement-based, high-quality products to meet your project needs. The ProSpec portfolio includes a full line of floor preparation and tile and stone installation systems that are backed by best-in-class system warranties. Our broad range of concrete repair and restoration products offer solutions for DOT and road repair, precast and cast in place systems, and concrete rehabilitation projects.



Floor Preparation Systems

- Self-Leveling Underlayments
 Self-Leveling Surface Toppings
 - Primers & Bonding Agents
 Moisture Mitigation
 - Surface Patching & Skim Coating Compounds
 - Concrete Resurfacing & Rehabilitation



Tile & Stone Installation Systems

- Surface Preparation Preformed Components
 - Crack Isolation Membranes & Waterproofing
- Tile Setting Mortars Adhesives & Epoxies
 - Tile Grout Additives Caulks



Concrete Repair & Restoration Products

- Non-Shrink Grouts
 Precast
 Concrete Repair
 - Concrete Resurfacing & Rehabilitation
 - Damp Proofing & Waterproofing
 - Primers & Bonding Agents
 Shotcrete



Titans Stadium Nashville, Tennessee

ProSpec Product Enhancements



RIYOUNG MICO



Rapid Cure Technology – RCT[®] Improves the strength, curing, workability, and performance of ProSpec surface preparation and tile products. RCT is our next generation of cement technology beyond portland cement-based systems offering quick, high strength development and fast curing without sacrificing workability or working time. RCT also reduces efflorescence, controls the shrinkage during curing, and provides greater long-term performance.



Expansion Stabilization Technology – EST[™] A special additive designed to reduce the potential for cracking and shrinkage by controlling the pre-cure chemical and physical reactions during an underlayment's plastic stage, where up to 80 percent of shrinkage occurs.



Micro Defense® Technology A special antimicrobial additive that prevents the growth of mold and mildew. Micro Defense is particularly important for installations exposed to moisture.



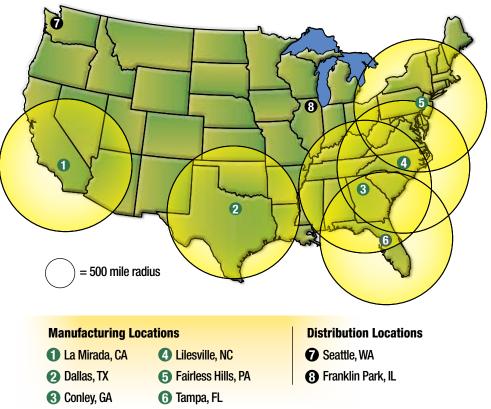
ProSpec Products Meet LEED Standards

ProSpec is committed to manufacturing environmentally friendly products. Our products can help you achieve LEED certification by contributing towards credits in three areas:

- IEQ 4.1 4.3: Low-Emitting Materials for better indoor environmental quality
- MR 4: Recycled Content for responsible raw material selection
- MR 5: Regional Materials, to support the use of local materials and reduce the environmental impacts resulting from transportation

ProSpec can supply product from six manufacturing locations and two distribution locations throughout the United States.

ProSpec Manufacturing & Distribution



LEED Credit Reference Guide

	Recycled Regional Low-Emitting Materials		ials			
	Content	Regional Materials	Adhesives & Sealants	Paints & Coatings	Flooring Systems	TOTAL Leed
Credit:	MR 4	MR 5	IEQ 4.1	IEQ 4.2	IEQ 4.3	SCORE
Points	Up to 2 Points	Up to 2 Points	1 Point	1 Point	1 Point	
Construction Grout & Precast:						
C-1107 Construction Grout		2				2
High Strength Precision Grout		2				2
Precast Mortar Grout		2				2
Slab Dowel Grout		2				2
Slab Bedding Grout		2				2
RubCrete	2	2		1		5
BlendCrete		2		1		3
Concrete Repair:						
Premium Patch 100		2				2
Premium Patch 200		2				2
Metro Mix 240	2	2				4
Metro Mix 240 AE		2				2
Instant Hydraulic Cement		2	1			3
Concrete Restoration & Rehabi	litation:			·		
Concrete Resurfacer		2		1		3
RubCrete	2	2		1		5
BlendCrete		2		1		3
Vinyl Concrete Patch		2				2
Damp Proofing / Waterproofing	F					
Sure Coat		2		1		3
Primers & Bonding Agent:						
Level Set Primer		2		1		3
B-730 Mortar / Acrylic Additive		2	1		1	4
-			•		•	-
Shotcrete:						
Shotcrete 300V	2	2				4
Baybridge Shotcrete	2	2				4

*Refer to manufacturing location map, opposite page, for Regional Materials eligibility.

Construction Grout & Precast

	C -1107 Construction Grout	High Strength Precision Grout	Precast Mortar Grout	Slab Dowel Grout	Slab Bedding Grout
Features:					
Meets CRD-621 & ASTM 1107					
Vertical / Horizontal / Overhead	Н	Н	V/0	Н	Н
Structural					
Rapid hardening					
Non-shrink					
Non-metallic					
Placement:					
Thickness	1" to 4" neat (25 mm to 102 mm)	1" to 4" (25 mm to 102 mm)	1/2" to 3" (13 mm to 76 mm)	1/2" to 2" (13 mm to 51 mm)	Featheredge to 2" (51 mm)
Working time (minutes @ 70° F)	15 (fluid)	30 (fluid)	30 (plastic)	20 to 30 ¹	30 to 45
Pumpable					
Compressive Strength:					
Plastic (1 day / 28 days)	6,000 / 9,500	6,000 / 10,500	2,700 / 7,250	N/A	N/A
Flowable (1 day / 28 days)	5,500 / 8,500	5,500 / 10,000	N/A	N/A	N/A
Fluid (1 day / 28 days)	4,000 / 7,500	4,000 / 9,000	N/A	5,200 / 7,500	3,500 / 8,000

Note: Contact ProSpec Technical Services for state DOT approvals.

1. Pumpable for 20 minutes.

Concrete Repair

	Premium Patch 100 ¹	Premium Patch 200 ¹	Metro Mix 240 ¹	Metro Mix 240 AE ¹	Instant Hydraulic Cement
Features:					
Vertical / Horizontal / Overhead	Н	Н	Н	Н	V/H
Wearing surface					
Structural					
Freeze / Thaw					
Resists deicing salts					
Shrinkage compensating					
Return to service	1 hr.	1 hr.	24 hrs.	24 hrs.	
Special Additives:					
Polymer modified					
Corrosion inhibitor					
Fiber reinforced					
Placement:					
Thickness	1/2" to 8" ² (13 mm to 203 mm)	1/2" to 8" ² (13 mm to 203 mm)	>2" (51 mm)	≥1.5" (38 mm)	N/A
Working time (minutes @ 70° F)	15	15	60+	60+	1
Form / Pour					
Application	Trowel	Trowel	Pump, Trowel	Pump, Trowel	Trowel
Compressive Strength:					
24 hours (psi)	6,000	5,400	>2,000	>2,000	2,800
28 days (psi)	10,000	9,100	>6,000	>6,000	6,290

Suitable for DOT use. Contact ProSpec Technical Service for state DOT approvals.
 Must be extended with aggregate over 2".

Concrete Resurfacing & Rehabilitation

	Concrete Resurfacer ¹	RubCrete ¹	BlendCrete ¹	Vinyl Concrete Patch
		Haborete	Dicitionete	
Features:				
Vertical / Horizontal / Overhead	Н	V/0	V/0	Н
Wearing surface	• • • • • • • • • • • • • • • • • • •			
Structural				
Freeze / Thaw				
Corrosion inhibitor				
Coating resurface				
Return to service	8 hrs.	N/A	3 hrs.	8 to 12 hrs.
Special Additives:				
Polymer-modified				
Placement:				
Thickness	Up to 1/2" (13 mm)	Featheredge to 1/2" (13 mm)	1/4" to 1" ² (6 mm to 25 mm)	1/16" to 2" ³ (2 mm to 51 mm)
Working time (minutes @ 70° F)	20 - 30	25 - 35	15	20
Application	Trowel / Squeegee	Trowel / Brush / Rubber float	Trowel	Trowel
Compressive Strength:				
24 Hours (psi)	2,400	600	>4,000	>2,400
28 days (psi)	5,000	3,500	>6,500	>5,500

1. Suitable for DOT use. Contact ProSpec Technical Services for state DOT approvals.

2. Use ProSpec B-730 Mortar / Acrylic Additive for thickness of 1/4" to 1/2" (6 mm to 13 mm).

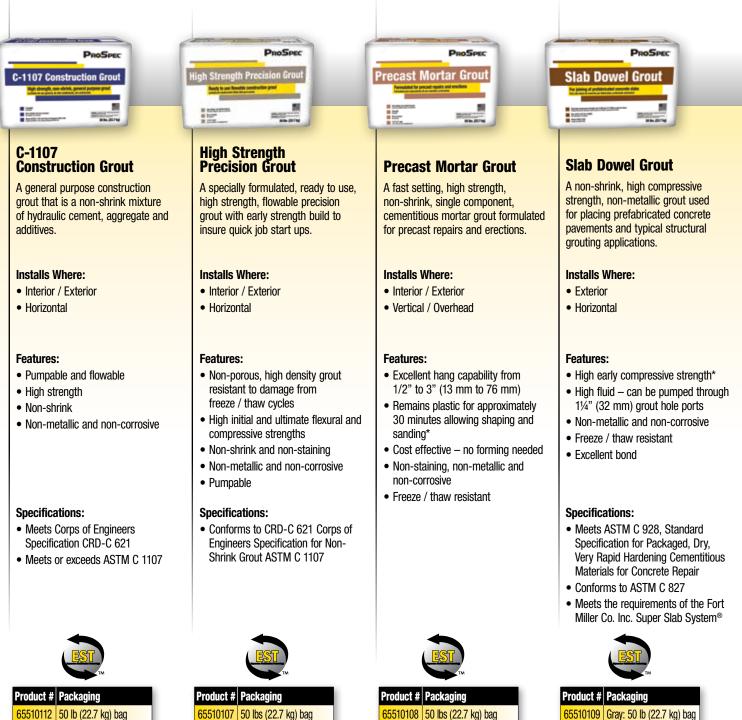
3. Vinyl Concrete Patch, applications from 1/16" to 1/4" (2 mm to 6 mm) requires the replacement of 1 qt. of water with 1 qt. of ProSpec B-730 Mortar / Acrylic Additive.

Primers & Bonding Agent

	Level Set Primer	B-730 Mortar / Acrylic Additive
Features:		
Re-emulsifiable	Yes (once)	No
% Solids by weight	48	26
Fortifying cement additive		
Bonding agent / Primer		
Bonds to concrete / Wood		
Placement:		
Thickness (wet mils)	2 to 6	N/A
Working time (minutes @ 70° F)	20 - 30	N/A
Application	Brush	N/A



Construction Grouts & Precast



65510107 50 lbs (22.7 kg) bag

* at 70° F (21° C)

* at 73° F (23° C) and 45° F (7° C)









Slab Bedding Grout

A non-shrink, high compressive strength, non-metallic grout used for placing prefabricated concrete pavements.

Installs Where:

- Exterior
- Horizontal

Features:

- Over 3,500 psi compressive strength in 24 hours
- Highly fluid, can be pumped through 11/4" (32 mm) grout hole ports
- Cement-based, non-corrosive, not a chemical concrete
- Excellent bond
- Freeze / thaw resistant

Specifications:

 Meets the requirements of the Fort Miller Co. Inc. Super Slab System[®]

RubCrete

A one-component, polymer-modified, portland cement-based interior and exterior resurfacer, designed for smoothing and filling vertical and overhead concrete and masonry surfaces.

Installs Where:

- Interior / Exterior
- · Vertical / Overhead

Features:

- Featheredge to 1/2" (1 mm to 13 mm)
- Excellent bond to old or new concrete
- · No primer needed
- Self curing
- Non-shrink finish
- Excellent coverage and easy to use

BlendCrete

BlendCrete

A fast-setting, one component, polymermodified, calcium aluminate cementbased concrete and masonry patching compound designed for vertical and overhead repair applications.

Installs Where:

- Interior / Exterior
- Vertical / Overhead
- Above Grade / Below Grade

Features:

- Apply to 1/4" to 1" (6 mm to 25 mm)*
- Can be trowelled, shaped and shaved after taking an initial set
- · Integrated corrosion inhibitor
- Does not require expensive forming procedures
- Normal set time of approximately 30 minutes
- Available in 15 minute set time formula

Product # Packaging 65515100 Gray: 35 lb (16 kg) bag

Product # Packaging

 65510467
 White: 25 lb (11.3 kg) bag

 65510465
 Gray: 25 lb (11.3 kg) bag

 65510466
 Brown: 25 lb (11.3 kg) bag

RCT®

Product # Packaging

65510423 White: 50 lb (22.7 kg) bag

BlendCrete is offered in a wide variety of gray colors. Contact ProSpec Customer Service for product numbers.

^{*} Use ProSpec B-730 Mortar / Acrylic Additive for thicknesses of 1/4" to 1/2" (6 mm to 13 mm).

Concrete Repair



Premium Patch 100

A fast-setting, fiber-reinforced, high strength, cement-based repair mortar designed for applications where high early strength gain is needed to reduce down time.

Installs Where:

- Interior / Exterior
- Horizontal

Features:

- Apply 1/2" to 2" (12 mm to 51 mm)
- High early strength repairs open to traffic within 60 minutes
- Wide temperature range from 20° F to 100° F (-6° C to 38° C)
- Non-corrosive not a chemical concrete
- Can be extended up to 60% by weight for repairs greater than 2" (51 mm) deep

Specifications:

- Meets ASTM C 928, Standard Specification for Packaged, Dry, Very Rapid, Hardening Cementitious Materials for Concrete Repair
- Suitable for DOT horizontal concrete repairs*





Premium Patch 200

A rapid-setting, fiber-reinforced, high strength, polymer-cement mortar designed for concrete repair and overlay applications requiring high durability.

Installs Where:

- Interior / Exterior
- Horizontal

Features:

- Polymer-modified for increased flexural strength
- Excellent bond no bonding agent needed
- Apply 1/2" to 2" (12 mm to 51 mm)
 High early strength repairs open to traffic within 60 minutes
- Non-corrosive not a chemical concrete
- Can be extended up to 60% by weight for repairs greater than 2" (51 mm) deep

Specifications:

- Meets ASTM C 928, Standard Specification for Packaged, Dry, Very Rapid, Hardening Cementitious Materials for Concrete Repair
- Suitable for DOT horizontal concrete repairs*



Product # Packaging 65510323 Gray: 50 lb (22.7 kg) bag



Metro Mix 240

A super plasticized, high performance, concrete mix. It replaces ready mix trucks where access is restricted. Ideal for projects requiring small structural concrete applications.

Installs Where:

- Interior / Exterior
- Horizontal

Features:

- Full depth repairs 2" (51 mm) or greater
- High-strength
- Contains corrosion inhibitor
- Super plasticized for higher slump and compressive strengths
- Pumpable

Specifications:

- Exceeds ASTM C 387
- Engineered to meet commercial / industrial ready mix specifications



Metro Mix 240 AE

An air entrained, super plasticized, high performance concrete mix with corrosion inhibitor. It replaces ready mix trucks where access is restricted. Ideal for projects requiring small structural concrete applications.

Installs Where:

- Interior / Exterior
- Horizontal

Features:

- · Improved freeze / thaw resistance
- Full depth repairs 1½" (38 mm) or greater
- · Excellent workability
- · Contains corrosion inhibitor
- Super plasticized for higher slump and compressive strengths
- Pumpable

Specifications:

- Exceeds ASTM C 387
- Engineered to meet commercial / industrial ready mix specifications



 Product #
 Packaging

 65510311
 Gray: 80 lb (36.3 kg) bag

* Contact ProSpec Technical Services for State DOT approvals.

ProSpec[®]



Instant Hydraulic Cement

A high speed, single component, cement repair material formulated for stopping active water leaks.

Installs Where:

- Horizontal / Vertical
- Above and below grade
- Can be applied underwater

Features:

- Initial set in 1 to 3 minutes
- Non-metallic
- Shrinkage compensated
- Stops seepage leaks
- Non-staining





Product #Packaging65300650Gray: 50 lb (22.7 kg) pail

Concrete Resurfacing & Rehabilitation



Concrete Resurfacer

A polymer-modified, cement-based product used for resurfacing old concrete to make it look new again.

Installs Where:

- Interior / Exterior
- Horizontal

Features:

- Excellent bond to old concrete, down to featheredge
- Fast drying, walkable in 2 hours
- Self curing
- · Contains corrosion inhibitor
- Can be pigmented to suit job site requirements
- High flexural and compressive strength
- Apply using a steel trowel or squeegee and broom finish. For curbs and steps a masonry brush can be used.



 Product #
 Packaging

 65510461
 Gray: 50 lb (22.7 kg) bag



RubCrete

A one-component, polymer-modified, portland cement-based interior and exterior resurfacer, designed for smoothing and filling vertical and overhead concrete and masonry surfaces.

Installs Where:

- Interior / Exterior
- Vertical / Overhead

Features:

- Featheredge to 1/2" (1 mm to 13 mm)
- Excellent bond to old or new concrete
- No primer needed
- Self curing
- Non-shrink finish
- · Excellent coverage and easy to use

BlendCrete

BlendCrete

A fast-setting, one-component, polymer-modified, calcium aluminate cement-based concrete and masonry patching compound designed for vertical and overhead repair

PeoSe

Installs Where:

applications.

- Interior / Exterior
- Vertical / Overhead
- · Above Grade / Below Grade

Features:

- Apply to 1/4" to 1" (6 mm to 25 mm)*
- Can be trowelled, shaped and shaved after taking an initial set
- Integrated corrosion inhibitor
- Does not require expensive forming procedures
- Normal set time of approximately 30 minutes
- Available in 15 minute set time formula

* Use ProSpec B-730 Mortar / Acrylic Additive for thicknesses of 1/4" to 1/2" (6 mm to 13 mm).



Product # Packaging 65510423 White: 50 lb (22.7 kg) bag

BlendCrete is offered in a wide variety of gray colors. Contact ProSpec Customer Service for product numbers.



Vinyl Concrete Patch

A fast-setting, one-component, polymer-modified, calcium aluminate, cement-based, horizontal concrete patching compound.

Installs Where:

- Interior / Exterior
- · Horizontal Only

Features:

- Can be applied from 1/16" to 2" (2 mm to 51 mm) neat
- Ready for pedestrian traffic in 8 - 12 hours
- · Ready for vehicle traffic in 48 hours
- Excellent abrasion resistance
- Excellent resistance to deicing salts
- Shrinkage compensating

*Applications from 1/16" to 1/4" (2 mm to 6 mm) require the replacement of 1 qt. of water with 1 qt. of B-730 Mortar / Acrylic Additive.

Specifications:

• Exceeds ASTM C 928

Product # Packaging 60200770 Gray: 40 lb (18.1 kg) bag

Product # Packaging

 65510467
 White: 25 lb (11.3 kg) bag

 65510465
 Gray: 25 lb (11.3 kg) bag

 65510466
 Brown: 25 lb (11.3 kg) bag

ProSpec*

Damp Proofing / Waterproofing







Sure Coat

A single component, polymer-modified portland cement-based, water-resistant coating for concrete and masonry. Designed to protect structures from moisture damage and dampness.

Installs Where:

- Interior / Exterior
- Vertical / Overhead
- Above Grade / Below Grade

Features:

- Resistant to positive and negative hydrostatic pressure
- Low permeability
- Durable, fine sand finish
- Paintable
- Can be used as a decorative coating
- Brush, spray or trowel apply



Product #	Packaging
<mark>6546</mark> 9001	Gray: 50 lb (22.7 kg) bag
<mark>60200320</mark>	White: 50 lb (22.7 kg) bag

Primers & Bonding Agent



Level Set Primer

A liquid-polymer, latex bonding agent for applications of the Level Set self-leveling products and ProSpec concrete repair products. All Level Set products must be used in conjunction with a Level Set Primer.

Features:

- · Bonding agent
- Dries in 1 to 3 hours

Product # Packaging

65510020

<mark>1 gal (3.8 L) jug 4 per case (38 lbs</mark> (17 kg))

65510021 5 gal (18.9 L) pail (48 lbs (22 kg))

- Water-based; non-flammable
- VOC Compliant
- Concentrated re-emulsifiable adhesive

B-730 Mortar / Acrylic Additive

An acrylic polymer emulsion used as an admixture in portland cement-based products including; masonry and concrete repair products and cement-based grouts and ProSpec non-modified tile setting mortars. It improves workability and flexibility, extends open time, and increases adhesion, bond and impact strength and freeze / thaw resistance.

Installs Where:

• Interior / Exterior

Features:

PROSPEC B-730 MORTAR/ ACRYLIC ADDITIVE

- · Increases tensile strength
- Solvent free / VOC compliant
- · Improves workability and curing
- · Enhances adhesion and durability
- Reduces potential for efflorescence

Specifications:

 ANSI A118.4 and A118.11 C2ES1P1 performance per ISO 13007 when mixed with ProSpec PermaSet 200 or ProSpec PermaSet 275

	Product #	Packaging
	<mark>65460020</mark>	1 gal (3.8 L) jug
	65460021	<mark>5 gal (19.0 L</mark>) pail
	65460022	55 gal (208 L) drum





Custom Shotcrete



Shotcrete 300V

A blend of hydraulic cement, polypropylene fibers, silica fume and well graded aggregates.

Features:

- High fiber content for superior crack and shrinkage reduction
- Economical
- Convenient
- Reduces rebound
- Greater overhead thickness
- Reduces sagging and sloughing

Specifications:

• Exceeds ASTM C 1480

Product # Packaging

 65350004
 80 lb (36.2 kg) bag

 65350011
 3,000 lb bulk (1360 kg) bag



• Includes fibers for crack and shrinkage control

Baybridge Shotcrete

A blend of hydraulic cement,

and well graded aggregates.

polypropylene fibers, silica fume

- Economical
- Convenient
- · Reduces rebound
- Greater overhead thickness
- Reduces sagging and sloughing

Specifications:

• Exceeds ASTM C 1480

Product # Packaging 65350008 80 lb (36.2 kg) bag



Notes			
-			









ProSpec,[®] Level Set[®] and RCT[®] are registered trademarks; and EST[™] is a trademark of Bonsal American, Inc., an Oldcastle company.

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