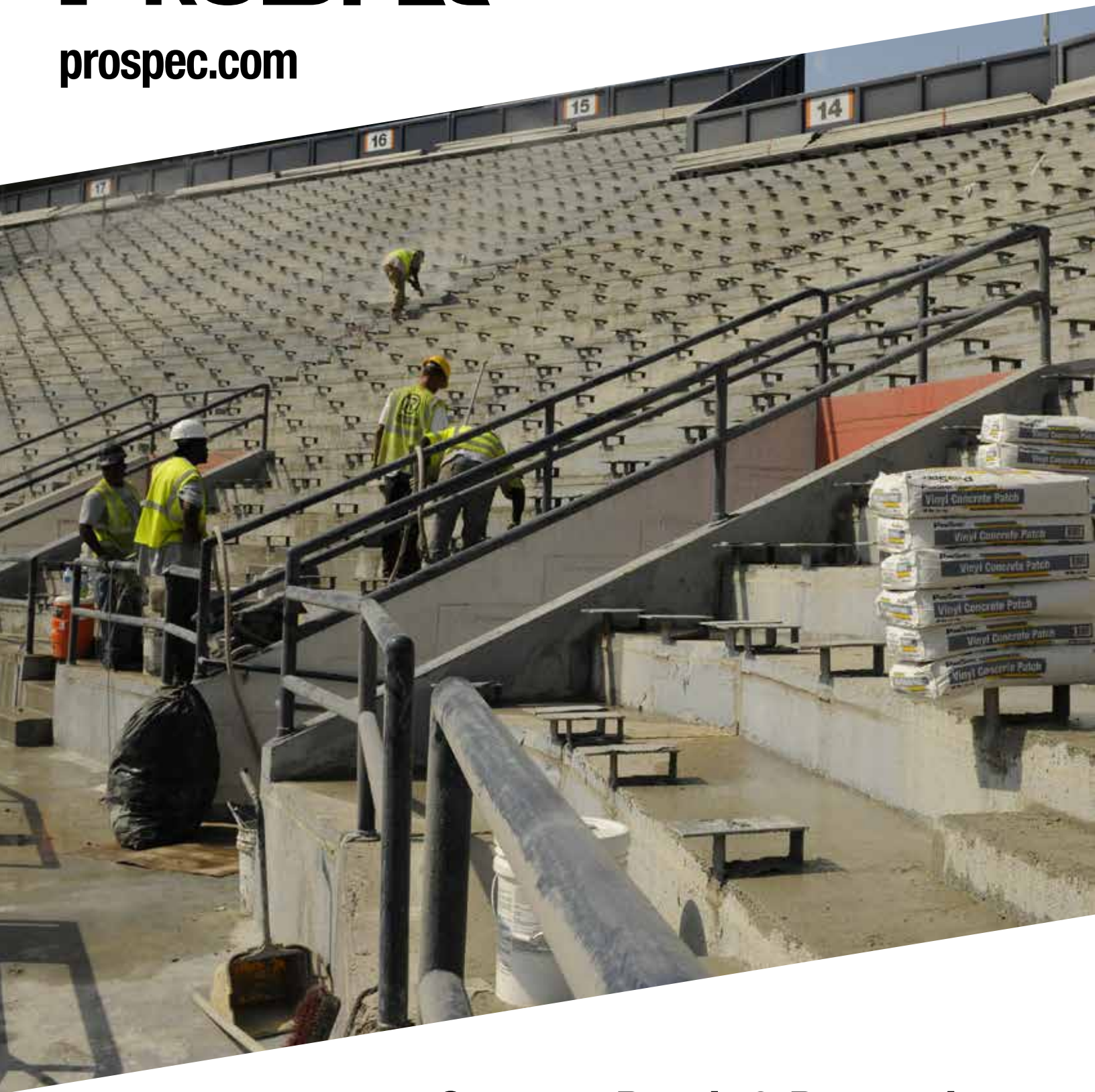


# PROSPEC®

prospec.com



## Concrete Repair & Restoration

# The ProSpec® Product Portfolio



ProSpec® offers a broad range of cement-based, high-quality products to meet your project needs.

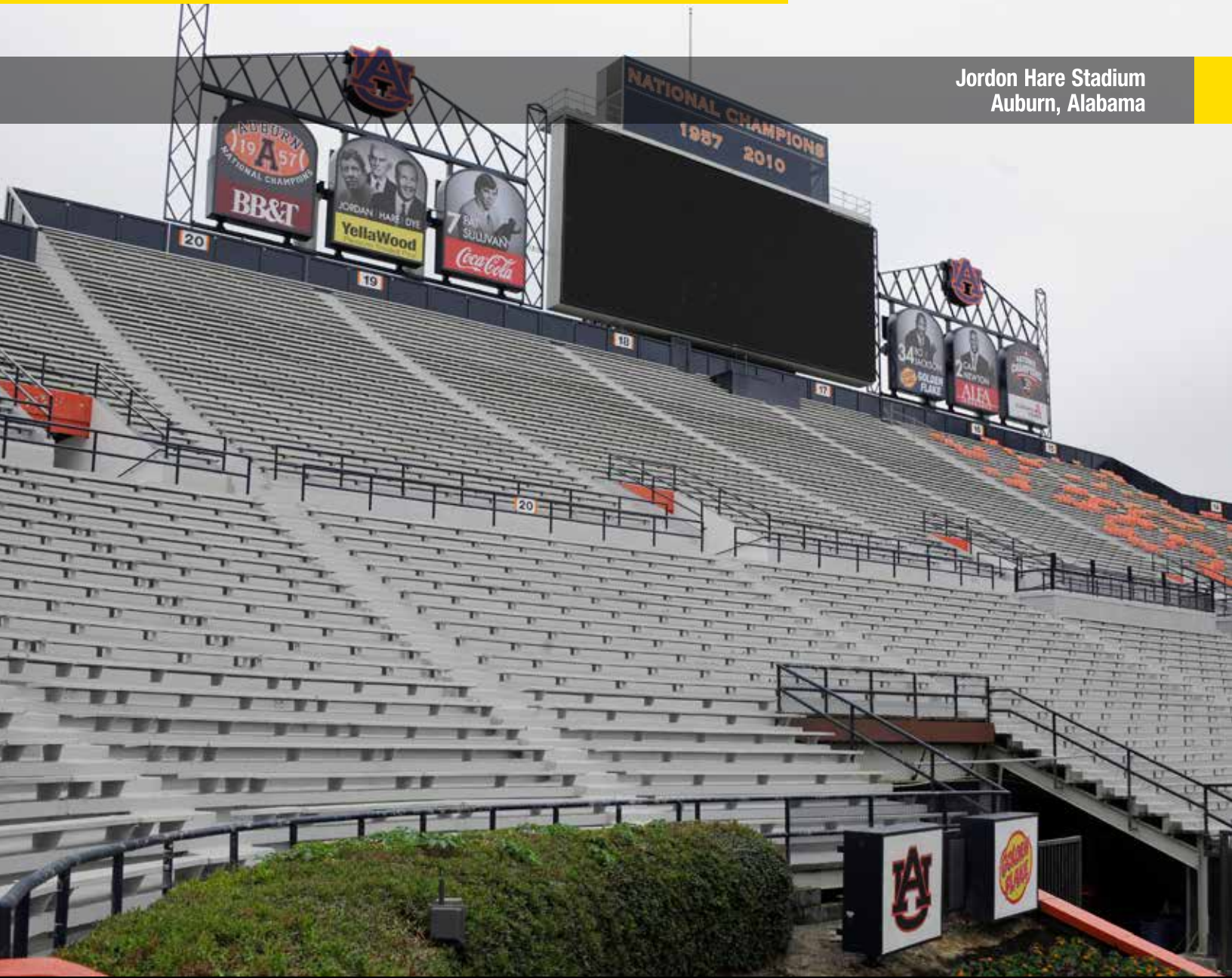
The ProSpec® portfolio includes a full line of concrete repair and restoration products offer solutions for DOT and road repair, precast and cast in place systems, and concrete rehabilitation projects.

## Concrete Repair & Restoration Products

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# ProSpec® Product Enhancements



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.

# Non-Shrink Grouts

## C-1107 Construction Grout

A general purpose construction grout that is a non-shrink mixture of hydraulic cement, aggregate and additives.

Interior / Exterior  
Horizontal  
Pumpable and flowable  
High strength  
Non-shrink  
Non-metallic and non-corrosive

Meets Corps of Engineers  
Specification CRD-C 621  
Meets or exceeds ASTM C 1107



■ Product #: 7160294858 ■ Available in: 50 lb (22.7 kg) bag

## High Strength Precision Grout

A specially formulated, ready to use, high strength, flowable precision grout with early strength build to insure quick job start ups.

Interior / Exterior  
Horizontal  
Non-porous, high density grout  
resistant to damage from  
freeze / thaw cycles  
High initial and ultimate flexural and  
compressive strengths

Non-shrink and non-staining  
Non-metallic and non-corrosive  
Pumpable  
Conforms to CRD-C 621 Corps  
of Engineers Specification for  
Non-Shrink Grout ASTM C 1107



■ Product #: 7159964858 ■ Available in: 50 lb (22.7 kg) bag



Slab Dowel Grout, Slab Bedding Grout & Slab Bedding Grout Rapid



# Precast Grouts

## Precast Mortar Grout

A fast setting, high strength, non-shrink, single component, cementitious mortar grout formulated for precast repairs and erections.

Interior / Exterior  
Vertical / Overhead  
Excellent hang capability from 1/2" to 3" (13 mm to 76 mm)  
Remains plastic for approximately 30 minutes allowing shaping and sanding\*

Cost effective – no forming needed  
Non-staining, non-metallic and non-corrosive  
Freeze / thaw resistant

\*at 70° F (21° C)



■ Product #: 7171984858 ■ Available in: 50 lb (22.7 kg) bag

## Slab Dowel Grout

A non-shrink, high compressive strength, non-metallic grout used for placing prefabricated concrete pavements and typical structural grouting applications.

Exterior  
Horizontal  
High early compressive strength\*  
High fluid – can be pumped through 1¼" (32 mm) grout hole ports  
Non-metallic and non-corrosive  
Freeze / thaw resistant  
Excellent bond

Meets ASTM C 928, Standard Specification for Packaged, Dry, Very Rapid Hardening Cementitious Materials for Concrete Repair  
Conforms to ASTM C 827  
Meets the requirements of the Fort Miller Co. Inc. Super Slab System®

\* at 73° F (23° C) and 45° F (7° C)



■ Product #: 7160434858 ■ Available in: Gray 50 lb (22.7 kg) bag



■ Product #: 7162253458  
■ Available in: Gray: 35 lb (16 kg) bag

## Slab Bedding Grout

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

Exterior  
Horizontal  
Over 3,500 psi compressive strength in 24 hours  
Highly fluid, can be pumped through 1¼" (32 mm) grout ports  
Cement-based, non-corrosive, not a chemical concrete  
Excellent bond  
Freeze / thaw resistant  
Meets the requirements of the Fort Miller Co. Inc. Super Slab System®



■ Product #: 7216303458  
■ Available in: Gray: 50 lb (22.7 kg) bag

## Slab Bedding Grout Intermediate

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

Exterior  
Horizontal  
Over 3,500 psi compressive strength in 24 hours  
High fluid - can be pumped through 1¼" (32 mm) grout hole ports  
Cement based, non-corrosive, not a chemical concrete  
Excellent bond  
Freeze/thaw resistant  
Meets the requirements of the Fort Miller Co. Inc. Super Slab System®



■ Product #: 7161064858  
■ Available in: Gray: 50 lb (22.7 kg) bag

## Slab Bedding Grout Rapid

Slab Bedding Grout Rapid is an ultra-fast setting, non-shrink, high compressive strength, load bearing, non-metallic grout used for placing precast concrete slabs.

Highly fluid, can be pumped through 1-1/4" (32 mm) grout ports  
Ultra-fast setting: up to 2,500 psi compressive strength in 1 hour  
Non-metallic  
Cement based, non-corrosive  
For precast concrete roadway panels  
Fill small voids between the prepared sub-grade and precast concrete slabs  
Ideal for grouting applications of limited clearance

# 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.

- Interior / Exterior
- Horizontal
- 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) up to 8" (203 mm) deep
- Meets ASTM C 928, Standard Specification for Packaged, Dry, Very Rapid, Hardening Cementitious Materials for Concrete Repair
- Suitable for DOT horizontal concrete repairs\*



■ Product #: 7161354858 ■ Available in: Gray: 50 lb (22.7 kg) bag

## Premium Patch 200

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

- Interior / Exterior
- Horizontal
- 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
- Extend up to 60% by weight for repairs greater than 2" (51 mm) to 8" (203 mm) deep
- Meets ASTM C 928, Standard Specification for Packaged, Dry, Very Rapid, Hardening Cementitious Materials for Concrete Repair
- Suitable for DOT horizontal concrete repairs\*



■ Product #: 7161074858 ■ Available in: Gray: 50 lb (22.7 kg) bag



# Instant Hydraulic Cement

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

- Horizontal / Vertical
- Above and below grade
- Can be applied underwater
- Initial set in 1 to 3 minutes
- Non-metallic
- Shrinkage compensated
- Stops seepage leaks
- Non-staining



■ Product #: 7162164858 ■ Available in: Gray: 50 lb (22.7 kg) pail

# 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.

- Interior / Exterior
- Vertical / Overhead
- Above Grade / Below Grade
- Resistant to positive and negative hydrostatic pressure
- Durable, fine sand finish
- Paintable

- Low permeability – 13 perms per ASTM E96 (when mixed with TEC 861 Patch Additive – see TECSpecialty.com for details).
- Can be used as a decorative coating
- Brush, spray or trowel apply



■ Product #: 7160814858 ■ Available in: Gray: 25 lb (11.3 kg) bag  
■ Product #: 7161194858 ■ Available in: Brown: 25 lb (11.3 kg) bag



Underground Concrete Pipes



# Concrete Resurfacing & Rehabilitation

## Concrete Resurfacer

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

Interior / Exterior  
 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 #: 7161324858
- Available in: 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.

Interior / Exterior  
 Vertical / Overhead  
 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



- Product #: 7160103058
- Available in: Brown: 25 lb (11.3 kg) bag

- Product #: 7160093058
- Available in: White: 25 lb (11.3 kg) bag
- Product #: 7162343058
- Available in: Gray: 25 lb (11.3 kg) bag

## BlendCrete™

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

Interior / Exterior  
 Vertical / Overhead  
 Above Grade / Below Grade  
 Apply to 1/4" to 2" (6 mm to 51 mm)\*  
 Can be trowelled, shaped and shaved after taking an initial set

Integrated corrosion inhibitor  
 Does not require expensive forming procedures  
 Available in 3 shades of gray and in 30 minute set and 15 minute set formulas

\* Use TEC® Patch Additive (used at full strength) for thicknesses of 1/4" (6 mm) to 1/2" (13 mm).

### 15 minute set

- Product #: 7160054858
- Available in: #0 Gray: 50 lb (22.7 kg) bag
- Product #: 7160064858
- Available in: #2 Gray: 50 lb (22.7 kg) bag
- Product #: 7161334858
- Available in: #3 Gray: 50 lb (22.7 kg) bag
- Product #: 7161331558
- Available in: #3 Gray: 50 lb (22.7 kg) pail



### 30 minute set

- Product #: 7161144858
- Available in: #0 Gray: 50 lb (22.7 kg) bag
- Product #: 7161204858
- Available in: #2 Gray: 50 lb (22.7 kg) bag
- Product #: 7165041558
- Available in: #2 Gray: 50 lb (22.7 kg) pail
- Product #: 7161214858
- Available in: #3 Gray: 50 lb (22.7 kg) bag
- Product #: 7161211558
- Available in: #3 Gray: 50 lb (22.7 kg) pail
- Product #: 7161024858
- Available in: White: 50 lb (22.7 kg) bag



Before  
RubCrete



With  
RubCrete



# Vinyl Concrete Patch

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

- |                                                         |                                       |
|---------------------------------------------------------|---------------------------------------|
| Interior / Exterior                                     | Ready for vehicle traffic in 48 hours |
| Horizontal Only                                         | Excellent abrasion resistance         |
| Can be applied from 1/16" to 2"<br>(2 mm to 51 mm) neat | Excellent resistance to deicing salts |
| Ready for pedestrian traffic in<br>8 - 12 hours         | Shrinkage compensating                |
|                                                         | Exceeds ASTM C 928                    |



\* For broom applications: Use 6 qt of TEC® Patch Additive (used at full strength) and gradually add the 40 lb (18.1 kg) bag of ProSpec® Vinyl Concrete Patch.

- Product #: 7161183558
- Available in: Gray: 40 lb (18.1 kg) bag

# Polishing Grout

## Level Set Polishing Grout

A rapid-setting, high strength polishing grout designed to fill pinholes and surface imperfections that occur during the polishing process of self-levelling overlays.

- Ultra-smooth finish for polishing
- Exceptional bond strength
- Cement-based and heavily polymer modified
- Excellent workability for trowel application
- Fast-setting for a quick turnaround time
- Easy to use
- Can be used during the polishing process of Portland cement concrete

- Product #: 7165511558 ■ Available in: Gray: 40 lb (18.2 kg) pail
- Product #: 7177141558 ■ Available in: White: 40 lb (18.2 kg) pail
- Product #: 7177431558 ■ Available in: Bright White: 40 lb (18.2 kg) pail



New Jersey Turnpike

# Construction Product Selection Matrices

## Construction Grouts & Precast Grouts

FEATURES:	C -1107 Construction Grout	High Strength Precision Grout	Precast Mortar Grout	Slab Dowel Grout	Slab Bedding Grout	Slab Bedding Grout Intermediate	Slab Bedding Grout Rapid
Meets CRD-621 & ASTM 1107	■	■					
Vertical / Horizontal / Overhead	H	H	V / O	H	H	H	H
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)	Up to 2" (51 mm)	Up to 2" (51 mm)	Up to 2" (51 mm)	Up to 2" (51 mm)
Working time (minutes @ 70° F)	15 (fluid)	15 (fluid)	30 (plastic)	20 to 30 <sup>1</sup>	30 to 45	30 to 40	10 to 25
Pumpable	■	■		■	■	■	■
COMPRESSIVE STRENGTH:							
Plastic (1 day / 28 days)	6,000 / 9,500	6,000 / 10,500	2,700 / 7,250	N/A	N/A	N/A	N/A
Flowable (1 day / 28 days)	5,500 / 8,500	5,500 / 10,000	N/A	N/A	N/A	N/A	N/A
Fluid (1 day / 28 days)	4,000 / 7,500	4,000 / 9,000	N/A	5,200 / 7,600	3,500 / 8,000	6,000 / 8,000	6,000 / 8,000

Note: Contact ProSpec® Technical Services for state DOT approvals. 1. Pumpable for 20 minutes.

## Concrete Resurfacing & Rehabilitation

FEATURES:	Concrete Resurfacer <sup>1</sup>	RubCrete <sup>1</sup>	BlendCrete™ <sup>1</sup>	Vinyl Concrete Patch
Vertical / Horizontal / Overhead	H	V / H / O	V / H / O	H
Wearing surface	■		■	■
Structural			■	■
Freeze / Thaw	■	■	■	■
Corrosion inhibitor	■		■	■
Coating resurface	■	■		
Return to service	2 - 8 hrs	16 to 24 hrs	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 2" <sup>2</sup> (6 mm to 51 mm)	1/16" to 2" <sup>3</sup> (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 / Brush / Rubber float
COMPRESSIVE STRENGTH:				
24 Hours (psi)	2,400	N/A	4,000	>2,400
28 days (psi)	>5,000	3,500	5,500	>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.



# Concrete Repair

FEATURES:	Premium Patch 100 <sup>1</sup>	Premium Patch 200 <sup>1</sup>	Instant Hydraulic Cement
Vertical / Horizontal / Overhead	H	H	V / H
Wearing surface	■	■	
Structural	■	■	
Freeze / Thaw	■	■	
Resists deicing salts	■		
Shrinkage compensating	■	■	■
Return to service	1 hr	1 hr	
SPECIAL ADDITIVES:			
Polymer modified		■	
Corrosion inhibitor	■	■	
Fiber reinforced	■	■	
PLACEMENT:			
Thickness	1/2" to 8" <sup>2</sup> (13 mm to 203 mm)	1/2" to 8" <sup>2</sup> (13 mm to 203 mm)	N/A
Working time (minutes @ 70° F)	15	15	1
Form / Pour	■	■	
Application	Trowel	Trowel	Trowel
COMPRESSIVE STRENGTH:			
24 hours (psi)	6,750	5,400	2,800
28 days (psi)	9,270	9,100	6,650 (7 day)

1. Suitable for DOT use. Contact ProSpec® Technical Service for state DOT approvals.

2. Must be extended with aggregate over 2".

# Damp Proofing & Waterproofing

FEATURES:	Sure-Coat®
Use	Interior/Exterior
Vertical / Horizontal / Overhead	V / H / O
Grade	Above or Below
Mold Inhibitor	■
Resists positive & negative hydrostatic pressure	■
Curing	25 hrs.
PLACEMENT:	
Working time (minutes @ 70° F)	60 - 80
Application	Trowel / Brush / Rubber float
COMPRESSIVE STRENGTH:	
(7/28 days)	>3000/>4000 psi



Hydraulic Cement

# PROSPEC®



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