

### 1. PRODUCT NAME

ProSpec® Quick PermaFlex® 570

### 2. MANUFACTURER

H.B. Fuller Construction Products Inc.  
1105 South Frontenac Street  
Aurora, IL 60504-6451 U.S.A.

1-800-552-6225 Office  
1-800-952-2368 Fax  
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### 3. PRODUCT DESCRIPTION

ProSpec® Quick PermaFlex® 570 is a rapid-setting, high performance, one-component, polymer-modified, calcium aluminate-based, tile setting mortar designed for difficult to adhere substrates, such as tile over cut back, VCT, tile over tile and for projects requiring a quick return to service.

#### Features and Benefits

- Polymer-modified, just add water
- Good adhesion to exterior grade plywood
- Interior or exterior
- Use for floor, walls or ceilings
- Rapid setting
- Good flexibility
- Grout in 2 - 4 hours
- Exceeds ANSI A118.4, A118.11, A118.15 and ISO 13007 C2FS1P1

#### Uses

##### For installation of:

- Porcelain tile
- Ceramic tile
- Quarry tile
- Large thin porcelain tile\*
- Non-moisture sensitive natural stone\*\*
- Cement tile and pavers
- High bottom lugged tile
- Glass tile

\* Tiles 3 - 6mm in thickness

\*\*All natural stone should be tested to be sure discoloration does not occur.

##### For installation over:

- Properly cured and finished concrete
- Cured portland cement mortar
- Cement backer unit (CBU)
- Exterior grade plywood (interior floors only) - 19" (48 cm) on center (OC) max
- ProSpec® B-6000 Waterproof / Crack Isolation Membrane
- Gypsum plaster or gypsum board (dry areas: wall only)
- Properly prepared cutback
- Properly prepared tile
- Properly prepared VCT tile

#### Uses (cont.)

##### For installation over (cont.):

- Cork underlayment
- Countertops

Note: For other substrates, contact the ProSpec® Technical Services.

Note: Difficult to bond substrates like existing vinyl tile or cutback adhesive require extra preparation. Consult ProSpec® Technical Services.

#### SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS Sheets are available on our website [prospec.com](http://prospec.com) or contact Medical Emergency Phone Number (24 Hours): 1-888-853-1758, Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300 or contact ProSpec® Technical Services at 1-800-832-9023 (7:00AM to 5:00PM M-F, Central US Time).

#### CAUTIONS

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered ProSpec® brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

#### 4. TECHNICAL DATA

ProSpec® Quick PermaFlex® 570	Time	Typical Values	ANSI A118.15	ANSI A118.11
Open Time - Fast Set	10 minutes at 28 days	> 120 psi (0.83 MPa)	> 75 psi (0.52 MPa)	n/a
Shear Strength to Porcelain Mosaic Tile	4 hr dry	> 250 psi (1.72 MPa)	> 50 psi (0.34 MPa)	n/a
	28 day dry	> 425 psi (2.93 MPa)	> 400 psi (2.76 MPa)	
	7 day water immersion	> 250 psi (1.72 MPa)	> 200 psi (1.38 MPa)	n/a
	28 day freeze thaw cycling	> 350 psi (2.41 MPa)	> 250 psi (1.72 MPa)	n/a
	28 day heat aging	> 410 psi (2.83 MPa)	> 400 psi (2.76 MPa)	n/a
Shear Strength to Glazed Wall Tile	7 day water immersion	> 350 psi (2.41 MPa)	> 250 psi (1.72 MPa)	n/a
Shear Strength Quarry Tile to EGP Plywood	28 days	> 220 psi (1.51 MPa)	n/a	> 150 psi (1.03 MPa)

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

Note: Test results obtained under controlled laboratory conditions at 72°F (22°C)/50% relative humidity. Tested using 2.76 qt (2.61 L) water per 25 lb (11.3 kg) bag. Reasonable variations can occur due to atmospheric and jobsite conditions.

## LEED® Eligibility¹

- Regional Materials (MR-c5)
- Low-Emitting Materials (IEQ-c4.1, IEQ-c4.3)

## Product Enhancement



Rapid Cure Technology (RCT®) - Improves the strength, controls shrinkage, and prevents efflorescence of our products without sacrificing workability or working time.

## Packaging

Gray: 25 lb (11.3 kg) bag – Product #65467545  
White: 25 lb (11.3 kg) bag – Product #65467546

## Shelf Life

6 months from the date of manufacture when stored in the original, unopened container, away from moisture, under cool, dry conditions and out of direct sunlight.

## 5. INSTALLATION Preparation

- Surface must be clean, dry, hard and free from dirt, loose particles, wax, sealers, curing compounds, grease, paint, efflorescence and any foreign materials that will inhibit adhesion.
- Walls and floors must be structurally sound, free of movement and dimensionally stable.
- Surfaces to receive tile shall be plumb and true with square corners. Maximum variation from the required plane shall be: Subfloor Surfaces – 1/4" (6 mm) in 10' (3 m) for tile less than 15" (381 mm) on any one side and the required plane shall be 1/8" (3 mm) in 10' (3 m) for tile 15" (381 mm) or greater on any one side.
- Concrete floors must be fully cured (28 days) and have a fine broom finish. Sprinkle water on the substrate in various areas looking for penetration. If water droplet or beading of water is noticed then surface contaminants are present that will cause loss of adhesion and must be removed. Smooth troweled surfaces should be scarified to assure bond. Inspect surfaces that will receive the tile and the tools used to install it.
- Gypsum substrates on walls must be clean, hard and dust free. Gypsum substrates are not recommended in wet areas.

Notify the architect or other designated authority in writing of any defects or conditions that prevent a satisfactory tile installation. (See ANSI A108.5)

In case of truing or leveling the work of others, use ProSpec® Floor Patch Pro, a ProSpec® Level Set® Self-Leveling Underlayment or ProSpec® Vinyl Concrete Patch.

**Interior wood subfloors:** (Light traffic, residential floors only)  
Exterior Grade Plywood Subfloors - See the most current edition of the [TCNA Methods Handbook F150](#).

- Double wood floor required.
- Maximum joist spacing: 19" (48 cm) OC.
- Subfloor: 19/32" (15 mm) exterior grade plywood or 1" (25 mm) nominal boards.

## INSTALLATION (cont.)

### Interior wood subfloors (cont.):

- Underlayment: 19/32" (15 mm) exterior grade plywood with 1/8" (3 mm) gaps between sheets. These gaps will be filled with the Quick PermaFlex® 570 when it is applied to set the tile. Plywood must be a Group I CC plugged or better.
- Maximum variation in plywood surface shall not exceed 1/4" (6 mm) in 10' (3 m) from required plane.
- Use 6 D ring shank nails in plywood at 6" (152 mm) OC along the sheet edge and at 8" (203 mm) OC throughout the sheet.
- Overlap all joints of the subfloor.
- Damp mop floor to remove any dust or sawdust. Allow to dry before applying Quick PermaFlex® 570.

Note: For joist spacing greater than 19" (48 cm) OC: See [TCNA Methods Handbook](#) or contact ProSpec® Technical Services.

Expansion joints are necessary for all installations. Expansion joints shall be located (refer to the TCNA Handbook for Ceramic Tile Installation Detail EJ171):

- Where tile work abuts restraining surfaces, such as perimeter walls, curbs, columns, pipes and the like.
- Directly over joints in structural floors and over construction or cold joints.
- Directly over expansion or control joints.
- Where specified in the architectural drawing.
- All materials should be stored at 40°F (4°C) to 80°F (27°C) 24 hours prior to installation.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

## Job Mockups

The manufacturer requires that when its ProSpec® products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

## Mixing

1. Use cool, clean, potable water. Always use clean tools and mixing containers.
2. Add just enough dry powder to the liquid to produce a thick but trowelable consistency (3 qt (2.8 L)) per 25 lb (11.3 kg). Too much water will cause the mortar to have reduced strength. Troweled ridges should not flow or slump.
3. Mix thoroughly. Do not mix with a high-speed power mixer. High speed mixing tends to beat in air and reduce the strength of the mortar.
4. The bucket life is approximately 20 - 30 minutes. Warmer temperatures will reduce bucket life.

## Application

Apply only to surfaces that are frost free and above 40°F (4°C) and below 100°F (38°C) within 24 hours of application and 72 hours thereafter. Installation must conform to the current specifications in ANSI A108.5 and the TCNA Handbook for Ceramic Tile Installations.

1. Select the proper trowel size. The proper trowel is one that will insure a minimum of 3/32" (2 mm) layer of mortar between the tile and substrate after the tile has been set. The proper trowel should also result in a minimum of 80% coverage for interior or dry areas and 95% for exterior, wet areas or with natural stone installations.
2. With pressure, apply a skim coat to the substrate with the flat edge of the trowel.
3. Comb the mortar in one direction, with the recommended notched trowel. Apply mortar only on sections that can receive tile before skinning. If skinning occurs, scrape and discard skinned mortar.
4. Press tile into place and slide perpendicular to the combed ridges to insure proper coverage.
5. Tile may be adjusted up to 5 minutes after placing.
6. Tile must be firmly set before grouting. This requires at least 2 - 4 hours.
7. Grout with ProSpec® ProColor Sanded Grout, ProSpec® ProColor Unsanded Grout or ProSpec® B-7000 Epoxy Mortar & Grout.
8. Clean all tools with soapy water before mortar dries.

## Limitations

- Do not add latex.
- Do not adjust tile after mortar takes its initial set or the bond will be permanently broken.
- Do not soak tile.
- Do not use worn trowels. It is important to have the ridges of the tile setting mortar the full depth of the trowel notches.
- Do not allow foot traffic on freshly installed tile for 2 - 4 hours.
- Do not allow heavy traffic until 72 hours after installation.
- Do not use over masonite, particle board, luan, plastic, vinyl asbestos tile or painted surfaces.
- Do not use over wood other than exterior grade plywood.

## Coverage

Coverage per 25 lb (11.3 kg) bag:

ProSpec® Quick PermaFlex® 570 Notch Trowel Size	Approximate Coverage
1/4" x 1/4" x 1/4" notch trowel (6 mm x 6 mm x 6 mm)	50 - 55 ft <sup>2</sup> (4.6 - 5.1 m <sup>2</sup> )
1/4" x 1/4" x 3/8" notch trowel (6 mm x 6 mm x 10 mm)	40 - 42 ft <sup>2</sup> (3.7 - 3.9 m <sup>2</sup> )
Euro Notch Trowel	25 - 27.5 ft <sup>2</sup> (2.32 - 2.55 m <sup>2</sup> )

## 6. AVAILABILITY

To locate ProSpec® products in your area, please contact:  
Phone: 800-832-9002  
Website: [prospec.com](http://prospec.com)

## 7. WARRANTY

For warranty details, see your sales associate or [prospec.com](http://prospec.com)

## 8. MAINTENANCE

Not applicable

## 9. TECHNICAL SERVICES

### Technical Assistance

Information is available by calling the Technical Support Hotline.  
Toll Free: 800-832-9023  
Fax: 630-952-1235

### Technical and safety literature

To acquire technical and safety literature, please visit our website at [prospec.com](http://prospec.com)

## 10. FILING SYSTEM

Division 9

<sup>1</sup> ProSpec® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials).

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Data Sheets are subject to change without notice. For the latest revision, check our website at [prospec.com](http://prospec.com)



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