

QUICK PERMAFLEX® 570

Description

ProSpec® Quick PermaFlex contains a unique blend of special cements and additives to provide a very quick setting, early bond and high compressive strengths. ProSpec Quick PermaFlex also contains a dispersible powdered polymer that provides higher bond strength, improved flexibility and impact strength when compared to ordinary sanded thin set mortars.

Features

- C2-F-S1-P1 performance per ISO 13007
- Polymer modified – just add water
- Open to light traffic in 4-6 hours
- Walls, floors or ceilings
- Can be used over several surfaces including exterior grade plywood (interior only)
- Ideal for use in heavy traffic areas where down time is critical
- Grout in 2-4 hours
- Interior or exterior
- Sets most types of ceramic tile or stone
- Exceeds ANSI A118.4 for Latex Portland Cement Mortar and ANSI A118.11 for EGP Latex Portland Cement Mortar
- Rapid Cure Technology (RCT)™

Uses

For installation of:

- Porcelain tile
- Pavers
- Cement tile
- Other natural stone
- Glass tile
- Quarry tile
- Slate
- Marble (except warpable marble)*
- Ceramic tile

* All marble should be tested to be sure discoloration does not occur.

NOTE: Difficult to bond substrates require extra preparation when using ProSpec Quick PermaFlex. Consult ProSpec's Technical Department.

For installation over:

- Properly prepared VCT flooring
- Countertops
- Cork underlayment
- Exterior grade plywood (interior floors only)
- Properly cured and finished concrete
- B-6000 Waterproof Membrane
- Tile backerboard
- Tile over tile
- Properly prepared cut back adhesive
- For other substrates, contact the ProSpec Technical Department



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Technical Data		
	Typical Values	ANSI A118.11
Shear Strength to Porcelain Tile		
4 hours	>160 psi (1. MPa)	>50 psi (0.3 MPa)
28 days dry	>350 psi (2.4 MPa)	>200 psi (2.1 MPa)
Shear Strength Quarry Tile to EGP Plywood		
28 days	210 psi (1.5 MPa)	>150 psi (1.0 MPa)

Preparation

Apply only to surfaces that are frost-free and between 40° F (4° C) and 100° C (38° C) for 72 hours. Surface must be clean, hard, and free from dirt, loose particles, waxes, plastics, curing compounds, grease, paint, and efflorescence. Walls and floors must be structurally sound, free of movement and dimensionally stable. These surfaces must also be within tolerances for trueness and plumbness.

New concrete must be cured and have a broom finish. Smooth troweled surfaces should be etched or scarified to assure bond. Inspect surfaces tile will be applied to and accessories to be used.

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, ProSpec Quick PermaFlex can be applied to a maximum thickness of 1/4" (6 mm). If a thicker mortar bed is necessary, a second or third application may be applied in increments of 1/4" (6 mm) as soon as each basecoat has hardened.

Surfaces to receive tile shall be plumb and true with square corners. Maximum variation from the required plane shall be: Sub Floor Surfaces – 1/4" (6 mm) in 10' (3 m).

Expansion joints are necessary for all installations. All installations must conform to the current specifications ANSI A108.5 and the TCA Handbook for ceramic tile installations.

Expansion joints shall be located (refer to the TCA Handbook for Ceramic Tile Installation):

- Where tile work abuts restraining surfaces, such as perimeter walls, curbs, columns, pipes and the like.
- Directly over joint in structural floor and over construction or cold joints.
- Directly over expansion or control joints
- Where specified in the architectural drawing

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

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Mixing

1. Use cool, clean water (drinking water is best), clean tools and clean containers.
 2. Add just enough dry powder to the water to produce a thick but trowelable consistency (3 quarts (2.8 L) per 25 lbs. (11.3 kg)). Too much water will cause the mortar to have reduced strength. Troweled ridges should not flow or slump. Hot water will quicken the set.
 3. Mix thoroughly.
 4. Do not mix with a high-speed power mixer. High speed mixing tends to beat in air, reducing the strength of the mortar and creating heat, which accelerates the curing time.
 5. Do not add latex. Mix with water only.
 6. Working life in the bucket is approximately 20-30 minutes.
- NOTE: Warmer temperatures will reduce the working life in the bucket.

Application

All installations must conform to the current specification in ANSI A108.5 and the TCA Handbook for Ceramic Tile Installations.

1. Select the proper trowel size.
The proper trowel is one that will insure a minimum of $\frac{3}{32}$ " (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 interior or dry areas and 100% for exterior, wet areas or with marble.
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, only that part of the bed that can have tile put on it before skinning occurs. If skinning occurs, scrape and discard skinned mortar.
4. Press tile into place and slide perpendicular to the ridges to insure proper coverage.
5. Tile may be adjusted up to 5 minutes after placing.
6. Tile floor must be firmly set before grouting. This requires approximately 2-4 hours.
7. Grout with ProSpec® Unsanded Tile Grout, ProSpec Sanded Tile Grout or ProSpec B-7000 Epoxy Grout.
8. Clean all tools with soapy water before mortar dries.

Colors

Gray or white

Coverage

Coverage per 25 lb. (11.3 kg) bag:

$\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ " square notch trowel - 50-55 ft² (4.6-5.0 m²)

$\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{3}{8}$ " square notch trowel - 40-42 ft² (3.7-3.9 m²)

Packaging

25 lb. (11.3 kg) bag



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Shelf Life

Six months from the date of manufacture when stored in the original closed container away from moisture.

Caution

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. WARNING!

MAY CAUSE SKIN AND EYE BURNS OR IRRITATION.

INHALATION IS KNOWN TO CAUSE CANCER OR DELAYED LUNG INJURY.

Avoid contact with eyes and skin. This product contains hydraulic cement and lime. When mixed

with water and/or latex, it results in a solution that is highly alkaline and may burn or irritate the eyes or skin. Wear safety glasses or goggles, protective clothing, shoes and gloves to prevent eye and skin contact. Do not take internally.

Avoid breathing dust. This product contains crystalline silica. Prolonged exposure to crystalline silica dust is known to cause lung

cancer or delayed lung injury, including silicosis. Take measures to eliminate or control dust while handling or placing this product. Wear a respirator approved for protection against crystalline silica dust.

Crystalline silica has been classified by IARC and NTP as a carcinogen.

First Aid

If swallowed, drink one or two glasses of water to dilute. Do not induce vomiting unless directed to do so by medical personnel. SEEK IMMEDIATE MEDICAL ATTENTION. In case of contact, flush eyes or skin thoroughly for a minimum of 15 minutes with clean water and get prompt medical

attention. Wash clothing and thoroughly clean shoes before reuse.

For additional information, call Bonsal American at 704-525-1621 or CHEMTREC at 800-424-9300 or 703-527-3887 outside of the USA.

Refer to Material Safety Data Sheet (MSDS) for further information.

LIMITED 1 YEAR WARRANTY FROM DATE OF MANUFACTURE: Bonsal American warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal American will replace any product or part which proves defective due to quality of ingredients used or due to the manufacturing process itself. This Warranty shall apply only if the product is used in strict accordance with applicable specifications and instructions provided by Bonsal American for its use, and Bonsal American shall not be liable otherwise. Replacement of any defective product, or, at Bonsal American's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal American shall in no event be liable for any damages in excess of the purchase price of the defective product. BONSAL AMERICAN SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES INCLUDING LOSS OF PROFITS OF ANY KIND. Product demonstrations are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. This Warranty constitutes the sole warranty given by Bonsal American in connection with this product. No modification of this Warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Bonsal American. Bonsal American has authorized no person to make or give any other warranties or representation, oral or written on its behalf. IN PARTICULAR, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.