

1. PRODUCT NAME

ProSpec® Feather Edge

2. MANUFACTURER

Bonsal American
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3. PRODUCT DESCRIPTION

ProSpec Feather Edge is a trowelable, rapid setting, polymer-modified, cement-based patch and skim coating compound that results in an ultra-smooth, thin finish applied under resilient flooring, VCT and a wide array of floor coverings.

Features and Benefits

- Featheredge up to 1/2" (13 mm) thickness without cracking
- No large aggregate, resulting in ultra smooth, thin finish
- Accepts tile and stone installations and moisture-sensitive floor coverings in 15 - 30 minutes
- Can be sanded to a smooth finish
- Cement-based
- Does not require priming
- Contains no protein additives
- Exceptional bond: polymer-modified

Uses

Ideal for use as an embossing leveler

Can be used under:

- Resilient flooring
- VCT
- Carpet
- Ceramic tile
- Wood flooring

Can be used over:

- Concrete
- Ceramic tile**
- Exterior grade plywood
- Properly prepared cutback adhesive**
- Properly prepared residual carpet adhesive**
- Fully adhered resilient flooring**
- Cement terrazzo**
- Cement backer board (CBU)

** Replace 50% of water with ProSpec B-730 Mortar / Acrylic Additive.

Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website www.prospec.com or contact CHEMTREC (24 hours availability) 800-424-9300 for International inquiries +011-703-527-3887, or contact Bonsal American Technical Services at 800-334-0784 (8:00 AM to 5:00 PM Eastern US Time).

4. TECHNICAL DATA

Working Time @ 70°F (21°C)	15 - 25 minutes
Set Time ASTM C 191 @ 70°F (21°C)	
Final set	Approx. 30 minutes
Compressive Strength ASTM C 109 (Air Cured)	
24 hours	2,100 psi (14.5 MPa)
28 days	4,700 psi (32.4 MPa)

Note: Test results obtained under controlled laboratory conditions at 70°F (21°C) and 50% relative humidity. Tested using 2 parts powder per 1 part water by volume. Reasonable variations can occur due to atmospheric and job site conditions.

LEED Eligibility¹

- Regional Materials (MR-c5)
- Recycled Materials (MR-c4)
- Low-Emitting Materials (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.



Mirco Defense® Technology - Special antimicrobial additive that prevents the growth of mold and mildew.

Packaging

10 lb (4.5 kg) bag - Product #65550000

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

- Apply when air and substrate temperatures are between 40°F (4°C) and 100°F (38°C) within 24 hours of application. Surfaces must remain frost free and above 40°F (4°C) for 72 hours. For applications outside this range of temperatures, contact ProSpec Technical Services.
- 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.
- New slabs should be steel troweled with a fine broom finish and fully cured.
- Floors must be structurally sound, level, free from movement and dimensionally stable.
- Feather Edge does not require the substrate to be primed prior to installation.

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

Bonsal American, Inc. 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, potable water, clean tools and clean containers.
2. Dry-blend Feather Edge powder prior to mixing.
3. The amount of water can be modified for various applications and set times. Mix approximately 2 - 2.5 qt (1.9 - 2.4 L) per 10 lb (4.5 kg) bag. For smaller batches, use 2 parts powder to 1 part water.
4. When going over cutback adhesive, ceramic tile or as an embossing leveler, substitute 50% of the water with B-730 Mortar / Acrylic Additive.
5. Mix thoroughly to a lump-free, trowelable consistency.
6. Retemper, as pot life nears set time, without additional water.

A mechanical mixer such as a paddle and 1/2" heavy-duty drill will result in a better consistency and save time. Smaller batch quantities should be mixed by hand.

Note: Elevated temperatures will shorten the working time. Lower temperatures will delay set times.

Application

1. Apply Feather Edge with a steel trowel using enough pressure to fill all defects and prepare the subfloor to the desired finish.
2. Flooring can be applied in as little as 15 - 30 minutes or as soon as completely dried.
3. For a smoother finish, Feather Edge can be sanded once cured.
4. Clean all tools with soapy water before Feather Edge dries.
5. For applications to areas greater than 4 ft² (1 m²) where the uniform thickness is > 1/2" (> 13 mm), use a ProSpec self-leveling underlayment.

Refer to:

RFCI (Resilient Floor Covering Institute publication MRP - Nov95) [Addressing Moisture Related Problems Relevant to Resilient Floor Coverings Installed Over Concrete](#)

NOFMA (National Oak Flooring Institute) publication [Installing Hardwood Flooring, Re. March 98/10](#)

When used as an embossing leveler:

- All material to be embossed must be clean, free of bond breakers, firmly bonded to the substrate and demonstrate no signs of moisture. It is not recommended over cushion backed flooring.
- Mix to a lump free, creamy consistency with 50/50 water to B-730 Mortar / Acrylic Additive and apply material to fill the pattern.
- Allow to dry for 60 - 90 minutes before covering with new flooring. The mixed embossing leveler product produces a very dense surface. This needs to be considered in making an adhesive selection.

When used for a flooring installation:

- ProSpec Feather Edge will accept standard floor coverings such as VCT, vinyl sheet goods, tile and carpeting in approximately 15 - 30 minutes after placement.
- When using moisture sensitive adhesives such as urethanes and epoxies, employed with wood floors etc. Feather Edge may necessitate 16 hours of curing.
- Feather Edge is a cement-based product therefore all adhesives compatible with concrete should be acceptable. Consult adhesive manufacturer.
- Always install a test area, insuring suitability of Feather Edge for intended use.

Curing

Feather Edge is self curing however protect from excess heat and rapid air movement.

Coverage

Skim coat coverage per 10 lb (4.5 kg) bag

Over Concrete	225 sq ft (21 m ²)
Over plywood / luan	275 sq ft (26 m ²)

Note: All coverage rates are estimates and are dependent upon substrate characteristics.

Limitations

- Do not install if the substrate moisture vapor content exceeds 90% when tested using ASTM F 2170 RH probes or the surface moisture vapor transmission exceeds 10 lb / 1000 ft² / 24 hr when tested per ASTM F 1869 Moisture Vapor Transmission (Calcium Chloride) procedure.
- Do not install if the substrate moisture vapor content (RH) or surface moisture vapor transmission rate (Calcium Chloride) exceeds flooring manufacturer's recommendations.
- Do not use as an embossing leveler over cushioned back sheet goods or perimeter bonded sheet goods.
- Do not use over metal, OSB or pressed wood.
- Do not use over unsealed gypsum or light weight concrete.
- Do not use for exterior applications.
- Do not use to level larger areas. Use a ProSpec Level Set self-leveling product.
- Do not apply as a wearing surface.
- Do not apply when there is excessive heat or rapid air movement.
- Do not cover or fill control or expansion joints.

6. TECHNICAL SERVICES

Technical assistance:

Information is available by calling ProSpec Technical Services Hotline (Hours - 8:00 AM to 5:00 PM EST):

Toll Free: 1.800.334.0784

Fax: 1.704.945.0309

Technical and safety literature:

To acquire technical and safety literature, please visit our website at www.prospec.com.

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

DANGER

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child.

Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/ attention. If exposed or concerned: Get medical advice/ attention. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

This product contains Crystalline Silica, Quartz and trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

78.2 % of the mixture consists of ingredient(s) of unknown acute toxicity.

ENVIRONMENTAL ADVISORY

Uncured or crushed cured cement is an environmental hazard, which may adversely affect fish and wildlife. Dispose of construction debris containing cement, including empty bags, at a permitted municipal disposal firm. Do not use crushed concrete as a fill near an aquatic habitat.

Bonsal American, Inc. (Bonsal) warrants that this product is free from defects in material and workmanship, and will perform per the Bonsal American® product literature in effect at the time of purchase. This warranty is for one (1) year from the date of purchase. Any implied warranty of merchantability or fitness for a particular purpose is limited to the duration of this express warranty. This warranty applies only if the product is used, in strict accord with Bonsal American published instructions. The sole and exclusive remedy under this warranty is replacement of the defective product or refund of the purchase price, at Bonsal's option. **CONSEQUENTIAL, SPECIAL AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY.** All claims under this warranty must be submitted to Bonsal by calling (800) 334-0784. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

PROSPEC
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