

# ProTerra<sup>TM</sup>

## REGULAR STRENGTH

### PRODUCT DESCRIPTION

The professional choice for interior wood, concrete, or steel subfloors, BoldStep ProTerra Regular Strength underlayment combines fire resistance and sound attenuation with high compressive strengths. Use it to achieve a durable foundation while exceeding the specifications of most floor coverings.

### INTENDED USE

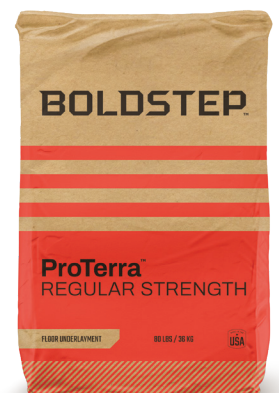
- **Construction Type**  
Multifamily and light commercial
- **Project Type**  
Multifamily, light commercial, commercial wood frame and pre-cast, poured-in-place, pre-stressed concrete construction, concrete repair/renovation, steel decks
- **Subfloor**  
Interior wood, concrete, steel

### FEATURES AND BENEFITS

- Designed for both multifamily and light commercial construction applications
- Fulfills compressive strength requirements of 2,000–3,200 psi (13.8–22.1 MPa)
- Exceptional flow properties
- Optimizes sound attenuation with the addition of BoldStep<sup>TM</sup> AttenuWave<sup>TM</sup> Mat
- Available in over 35 UL and ULC fire-resistance-rated designs.

### PRODUCT INFORMATION

<b>Packaging</b>	80 lb bag
<b>Dry Time</b>	- 3/4" (19 mm) - typically 5 to 7 days - 1" (25 mm) - usually 7-10 days * Dry times will vary based on relative humidity and temperature.
<b>Installation Environment</b>	50 °F (10 °C) for at least 24 hours prior to installation and until underlayment has set.
<b>Foot Traffic</b>	Typically within 2-4 hours
<b>Resume Trades</b>	24 hours
<b>Storage Environment</b>	50 – 100 °F (10 – 38 °C)
<b>Comprehensive Strength</b>	2000–3,200 psi (13.8–22.1 MPa)
<b>Fire Performance</b> ASTM E84	Flame Spread – 0 Fuel Contribution – 0 Smoke Development – 0
<b>Dry Density</b>	110–120 lbs/ft <sup>3</sup> (1762–1922 kg/m <sup>3</sup> )
<b>Installation Depths</b>	3/4"-3" (19–76 mm) For deeper pours, contact BoldStep.



## ENVIRONMENTAL IMPACT

Sample USGBC LEED® Credit Areas*		
Project	Credit	Category
<b>Environmental Quality</b>	EQ2	Low Emitting Materials
	EQ4	Indoor Air Quality Assessment
	EQ9	Acoustic Performance
<b>Material &amp; Resources</b>	MR3	Building Product Disclosure and Optimization – Sourcing Raw Materials

\* Credits may vary depending on project type and BoldStep products used.

For additional information on product environmental credits and certifications visit [BoldStep.co](http://BoldStep.co).

## UL FIRE RESISTANCE-RATED DESIGNS

UL Design					
L528	L579	L547	L501	L540	M518
L546	M508	L570	L502	L541	M519
L563	L518	L589	L512	L569	G561
L576	L530	M502	L520	L593	G560

ULC Design					
L003	L511	M500	M503	M520	I530
L201	L512	M501	M514	M521	I533

For more information on current UL and ULC Designs, contact BoldStep.

**ProTerra™**  
REGULAR STRENGTH

## INSTALLATION

At least 24 hours prior to installation, building interior and floor should be maintained above 50 °F (10 °C). Pack plumbing or electrical penetrations with insulation and seal prior to application. Minimize direct sunlight during the pour and over the next 72 hours. Maintain temperatures above 50 °F (10 °C) with no air movement until ProTerra Regular Strength has set. Once set, provide adequate air movement by opening windows to expedite drying.

### Wood Subfloor Preparation

Wood subfloors must be structurally sound, clean, and free of dust and contaminants.

Wood subfloors must be primed with a BoldStep Floor Primer prior to ProTerra Regular Strength underlayment application at a minimum depth of 3/4".

### Concrete Subfloor Preparation

Adhere to the following guidelines to help ensure the successful application and longevity of ProTerra Regular Strength Underlayment:

- Subfloors must be structurally sound, fully cured, and free of moisture and efflorescence.
- Ensure the surface is clean and free of dust, dirt, and other contaminants.
- If cracks are present, consult a structural engineer to determine the appropriate remediation method.
- All concrete subfloors must be tested for moisture content before application. Refer to Limitation 4 for specific requirements.
- For moisture-free concrete subfloors and exposed edges, apply BoldStep Multi-Use Acrylic Primer prior to pouring the underlayment to ensure proper adhesion and performance.

### Application Over Existing Concrete or Gypsum

It is important to follow all safety protocol and adherence to manufacturer specifications, which is critical to achieving optimal performance including:

- ProTerra Regular Strength Underlayment must be poured directly onto primed floor.
- Use a gauge rake to evenly spread the material and achieve your desired depth.
- Follow immediately with a smoother to eliminate surface air bubbles and ensure a level finish.

### Application Over Wood Subfloor

It is important to follow all safety protocol and adherence to manufacturer specifications, which is critical to achieving optimal performance including:

- ProTerra Regular Strength Underlayment must be poured directly onto primed subfloor.
- Spread the material immediately using a gauge rake to reach your target depth, ensuring a minimum layer of 3/4".
- Use a smoother to eliminate surface air bubbles and achieve an even finish.

## INSTALLATION CONTINUED

### Drying

Continuous ventilation and adequate heat must be maintained to facilitate rapid moisture removal until the underlayment is fully dry. The general contractor or project superintendent is responsible for providing mechanical ventilation and heating equipment. Under optimal conditions, a 3/4" (19 mm) thickness of ProTerra Regular Strength Underlayment typically dries within 5–7 days, while a 1" (25 mm) thickness requires approximately 7–10 days.

## LIMITATIONS

**Following the guidelines below supports optimal performance and durability of ProTerra Regular Strength Underlayment. For general questions, inquiries on other applications or further assistance, contact BoldStep at 800-818-4864.**

1. ProTerra underlayments are for interior use only. For installations scheduled before doors and windows are installed, contact BoldStep for specific recommendations.
2. Please consult BoldStep for guidance for on-grade or below-grade applications.
3. ProTerra underlayments are not designed to bond to wet subfloors and are not vapor or moisture barriers. Do not install moisture vapor barrier products over ProTerra underlayments. Avoid use in areas with prolonged or repetitive exposure to water or water vapor.
4. The general contractor is responsible for conducting moisture testing prior to underlayment installation. Testing methods should comply with flooring manufacturer specifications, typically ASTM F710. If the Moisture Vapor Emission Rate (MVER) exceeds 5 lbs (2.3 kg)/1,000 ft<sup>2</sup> (92.9 m<sup>2</sup>)/24 hours or the Relative Humidity (RH) exceeds 80%, treat the subfloor with a moisture-mitigating primer or epoxy. Follow more stringent requirements if specified by the flooring manufacturer and contact BoldStep for additional guidance.
5. Subfloors above crawl spaces must be protected by a vapor barrier. Special instructions apply for installation over plastic vapor barriers, particleboard, chipboard, hardboard (e.g., Masonite®), Lauan panels, metal, asbestos, or other non-dimensionally stable materials. Contact BoldStep for specific recommendations.
6. Turn off radiant heating systems at least 24 hours before installation and keep them off for 24 hours after installation.
7. Avoid using oil-based or silicone-based sweeping compounds, as they leave residues that interfere with the underlayment bond. Clean the subfloor using a vacuum equipped with a HEPA filter.
8. For subfloors with organic adhesives, asphalt, coal-tar-based adhesives, or other oil-based contaminants, contact BoldStep for proper remediation methods.
9. ProTerra underlayments can be scheduled for installation either before or after drywall. If pouring before drywall installation, consult BoldStep for specific requirements.
10. ProTerra underlayments are non-structural and are not intended to reinforce subfloors that are structurally deficient. The structural floor must be capable of supporting design loads with deflection limitations of L/360. Certain floor coverings may require stricter deflection limits. It is the responsibility of a qualified structural professional, not BoldStep or the applicator, to ensure the subfloor meets these requirements.

**ProTerra™**  
**REGULAR STRENGTH**

**LIMITATIONS** CONTINUED

11. Respect active control joints. Always ensure such joints are honored completely through BoldStep underlayments. In cases where control or expansion joints are not present in the subfloor, or cracking has occurred due to slab movement, consult a structural engineer.
12. Avoid walking on the installed surface until it has set, typically within 2–4 hours.
13. Trade traffic may resume 24 hours after installation. To protect the underlayment from rolling dynamic loads or concentrated heavy loads, place temporary wood planking over the affected areas to minimize damage.
14. Conduct a moisture test on the ProTerra Regular Strength underlayment before installing floor coverings. For dryness testing, use ASTM F2659, ensuring moisture content does not exceed 5%. For underlayment pours exceeding 2 inches, use ASTM F2170 to confirm an RH level not exceeding 80%. Do not proceed with floor goods installation until these conditions are met. If the flooring manufacturer specifies stricter moisture limitations, those requirements take precedence.
15. ProTerra Regular Strength underlayment is not designed to serve as a wear surface. Additional flooring materials must be applied for long-term durability.

**STORAGE AND DISPOSAL**

Product should be stored in original, sealed packaging in a cool, dry environment, and protected from humidity and water. Maintain storage temperatures between 50–100°F (10–38°C). Dispose of contents and containers in compliance with all applicable regulations.

**WARRANTY AND TECH SERVICES**

For complete warranty information, visit: [BoldStep.co](https://boldstep.co). For technical performance verification or customer service, contact BoldStep at 800-818-4864.

UL ER41597

**Job Name:****Date:****Applicator:**

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**[boldstep.co](https://boldstep.co)**

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