TRUE-SCREED® CLU
FLOOR UNDERLAYMENT

Hacker Industries, Inc.
SUBMITTAL FORM

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>Properties</th>
<th>ASTM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>Up to 2&quot; (51 mm)</td>
<td></td>
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<tr>
<td>Compressive Strength</td>
<td>Up to 6000 psi (41.4 MPa)</td>
<td>C109</td>
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<tr>
<td>Flexural Strength</td>
<td>1300 psi (9.0 MPa)</td>
<td>C348</td>
</tr>
<tr>
<td>Fire Hazard Classification</td>
<td>Flamespread index 0; Fuel contribution 0; Smoke density 0</td>
<td>E84</td>
</tr>
<tr>
<td>Sand</td>
<td>1/8&quot; (3 mm) or less washed plaster or silica sand</td>
<td>E11</td>
</tr>
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</table>

Benefits
- High-strength, Portland-cement-based floor underlayment
- Resurfaces and repairs cracked or uneven concrete floors
- Superior bonding characteristics
- Quick-setting and cost-effective for thick pours
- Lightweight and crack-resistant
- Creates a flat, durable surface for finished floor coverings
- Installed only by trained, Licensed Applicators across North America

Product Description
TRUE-SCREED® CLU is a Portland cement-based floor underlayment designed for interior use in residential, commercial, military and industrial projects. This leveling underlayment helps transform cracked, uneven concrete floors into a smooth, strong surface for floor coverings. TRUE-SCREED® CLU provides compressive strengths up to 6000 psi (41.4 MPa). To help keep projects on schedule and on budget, TRUE-SCREED® CLU can be compatible with finished floor coverings soon after application (depending on thickness and floor covering).

TRUE-SCREED® CLU is mixed on the job site with local sand (per ASTM E11) and water to create a lightweight slurry. At 1/2" thick, the underlayment weighs approximately 4.87 lb/ft².

Limitations
- Shall not be used in exterior locations, below grade, or where continuous exposure to moisture is likely.
- Shall not be used as a wear surface; must be covered by a finished floor covering.
- Structure shall be designed so that deflection does not exceed L/360 live or dead load. Certain floor coverings, such as marble, limestone, travertine and wood, may have more restrictive deflection limits. Consult the appropriate floor covering manufacturer for recommendations.
- If installed above a crawl space, subfloor must be protected by a vapor barrier.
- Metal lath reinforcement may be required for applications over a wood subfloor.
- Do not install over substrates containing asbestos.

Installation
Before, during, and after the installation of TRUE-SCREED® CLU, the building must be enclosed and the temperature maintained at a minimum of 50°F (10°C). If required, shot blasting, sandblasting, scarifying or other engineer-approved, non-wet method shall be done on concrete surface prior to application (reference ICRI CSP 3+ standards for profile height). Prior to the installation of TRUE-SCREED® CLU, the subfloor shall be structurally sound (L/360), broom cleaned, dry and free from oil, grease, paraffin, laitance, wax or other contaminants. Concrete subfloors shall be 28 days or older and free from hydrostatic pressure. Consult floor covering manufacturer for allowable Moisture Vapor Emission Rate (MVER). MVER shall not exceed 4 lb/1000 ft² per 24 hours (1.8 kg per 92.9 m²/24 hours). All dormant cracks above 1/8" shall be repaired to minimize telegraphing. After installation, temporary wood planking shall be placed by the GC wherever the floor underlayment will be subject to wheeled or concentrated loads. Protect installation areas from direct sunlight and excessive heat.

TRUE-SCREED® CLU can be used over plywood or oriented strand board (OSB) subfloors. Wood subfloors must be properly prepared, bonded, and free from dirt and dust. When applying TRUE-SCREED® CLU to plywood flooring, specifications may require the use of metal lath on top of the primed surface before the application of the underlayment.
Installation cont.
Prime subfloors per recommended specifications before installing underlayment.

Adequate ventilation shall be provided by the General Contractor (GC) to ensure proper drying of TRUE-SCREED® CLU. This product is designed to self-cure; do not use damp curing method and/or sealing compounds. If necessary, the GC shall provide mechanical ventilation. Depending on thickness and drying conditions, the underlayment should dry within 10 to 14 days. To avoid potential problems during the drying process, the GC shall consult Hacker Industries, Inc.’s Drying Conditions Flyer and information contained on Hacker Industries, Inc.’s website for additional information concerning drying of this product.

After installation, temporary wood planking shall be placed by the GC wherever the floor underlayment will be subject to wheeled or concentrated loads.

Finished floor coverings can be installed when the TRUE-SCREED® CLU is completely dry. Consult flooring contractor for recommended procedures to test for dryness and acceptable levels of moisture. Reference Hacker Industries, Inc.’s Guidelines for Installing Finished Floor Coverings. This guideline is not a warranty and shall be used as a guideline only. See ASTM F2419.

Product Data
Approximate Compressive Strength per ASTM C109 Modified: up to 6000 psi* (up to 41.4 MPa)

*Note: Compressive strengths published herein were achieved under controlled laboratory conditions. Actual field results may differ due to environmental conditions, regional sand variations, or inconsistent proportioning of field-applied water, sand and Hacker Floor Underlayment, as well as differences in mixing/pumping equipment.

Related Products
TRUE-SCREED® CLU Primer, Hacker TopCoat™ SP and TRUE-SCREED® CLU Sealer are available for use with TRUE-SCREED® CLU. Contact Hacker Industries, Inc. at (800) 642-3455 for more information.

Warranty
Subject to express warranty stated on Hacker industries, Inc.’s website.

Submittal Approvals
Project Name: ____________________________
Contractor/Architect: ____________________________
Date: ____________________________

PRODUCT INFORMATION

WARNING
When mixed with water, this product hardens and becomes extremely hot. DO NOT attempt to make a cast enclosing any part of the body using this material. Failure to follow these instructions may cause severe burns that may require surgical removal of affected tissue or amputation of limb. Portland cement is strongly alkaline. Direct contact can be corrosive and cause severe damage or chemical burns to eyes and wet, moist skin. Avoid contact with eyes and skin. Wear protective glasses and clothing. If eye contact occurs, immediately flush thoroughly with water for 30 minutes and seek medical advice. Inhalation or dust may be corrosive or cause chemical burns or irritation to nose, throat and respiratory tract.

Avoid breathing dust. Use a NIOSH/MSHA-approved dust respirator. Wash thoroughly with soap and water after use. Do not ingest. If ingested, call a physician. Product safety, call (800) 642-3455. KEEP OUT OF REACH OF CHILDREN.

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NOTICE
We shall not be liable for incidental or consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instruction or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within 30 days from date it was, or reasonably should have been, discovered.

SAFETY FIRST
Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read specs, MSDS and literature prior to specification and installation.

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