1. PRODUCT NAME
TEC® Level Set® LW-60 High Quality, Ultra-Light Self-Leveling Underlayment (053)

2. MANUFACTURER
H.B. Fuller Construction Products Inc.
1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.
800.552.6225 Office
800.832.9023 Technical Support
800.952.2368 Fax
tecspecialty.com

3. DESCRIPTION
TEC® Level Set® LW-60 is the ideal choice for an underlayment when the weight of materials is a critical factor in load bearing structures. It is a unique, ultra-lightweight, high quality, easy to handle, self-leveling underlayment that provides a flat, smooth, durable surface for finished flooring installation, at half the weight of a conventional portland cement or gypsum-based underlayment—just 60 pounds/cubic foot.

Note: All surfaces must be primed with TEC® Multipurpose Primer before installing Level Set® LW-60.

Key Features and Benefits
• Calcium aluminate cement-based
• Provides a smooth surface
• Applications from 1/4"-2" (6-50 mm) neat and can be featheredged to adjoining elevations
• 50% lighter than conventional cement and gypsum based systems
• Walkable in 3-4 hours
• Accepts non-moisture sensitive tile and stone in 4 hours
• Install moisture sensitive floor covering in 16-24 hours
• Lower alkaline binder system, when installed at ≥ 1/8" (4.7 mm), reduces the potential for decomposition of alkali sensitive adhesives and coatings compared to installations over concrete*
• Contributes to LEED® project points
• VOC 0

*Based on independent industry reports available upon request.

Suitable Substrates
When properly prepared, suitable substrates include:
• Concrete
• Ceramic, porcelain or quarry tile
• Cement or epoxy terrazzo
• Cement backerboard, properly prepared
• VCT or full glue down, non-cushioned vinyl sheetgoods
• Exterior grade plywood
• Oriented Strand Board (OSB)
• Existing wood flooring
• Gypsum substrates – minimum tensile bond strength 72 psi (0.5 MPa)

Substrate Preparation
General: All surfaces must be structurally sound and free from any contaminants that may inhibit bond, including oil, grease, dust, loose or peeling paint, floor finishes or waxes, etc.

Surfaces must be primed with TEC® Multipurpose Primer prior to installation of Level Set® LW-60. See Primer label for application instructions. Minimum tensile bond strength of 72 psi (0.5 MPa) is required.

All materials should be stored at 50°F (10°C) to 90°F (32°C) for 24 hours prior to installation. Substrate temperature should be a minimum of 43°F (6°C) and air temperature maintained above 50°F (10°C) and below 100°F (38°C) during and within 24 hours of application.

DO NOT cover existing building expansion or dynamic (moving) control joints or cracks. Provide joints where specified. Create 1/4" to 1/2" (3-6 mm) wide gaps where self-leveling underlayment abuts walls, columns, and fixtures by installing a self-sticking foam weather stripping tape or damp sand (vacuum up sand after self-leveling underlayment has cured). Plug all floor openings, gaps and static (non-moving) cracks and install termination dams to prevent any seepage.

Concrete: Level Set® LW-60 can be installed over new (“green”) concrete with a maximum of 99% RH or 15 lbs per 1000 ft² (0.07 kg/m²) per 24 hours. However, when installing moisture sensitive floor coverings refer to the finished floor manufacturer’s specifications on moisture limitations. Remediation of excessive moisture conditions must be addressed prior to the installation of Level Set® LW-60. This product is not a moisture vapor barrier. If substrate moisture content exceeds the maximum allowed by the flooring manufacturer, then moisture mitigation must be applied prior to application of Level Set® LW-60. To reduce moisture vapor emissions to an acceptable level, use TEC® LiquiDam™ Penetrating Moisture Vapor Barrier or LiquiDam EZ™ Moisture Vapor Barrier prior to application of TEC® Multipurpose Primer and Level Set® LW-60 (see product data sheet for details).

A successful application to concrete requires evaluation of the concrete surface and preparation to address any conditions that would prevent a good bond. Following are the four conditions you need to check for. Check for Condition 1 on the entire concrete surface. Check for Conditions 2 through 4 on several areas, typically every 100 square feet (0.9 m²) on applications of 1000 square feet (93 m²) or less and every 500 square feet (46.5 m²) on larger applications. Once you have completed the preparation method, always re-check to confirm the method worked.

Shot blasting is one of the most effective methods of removing a wide variety of contaminants, or laitance (weak concrete surface material) from concrete. A shot blast machine will remove sealers, coatings, curing compounds and other contaminants quickly and effectively, leaving behind a proper surface ready to receive the primer and underlayment. Thickness of surface removal must be deep enough to eliminate penetrated contaminants or laitance.

CONDITION 1: Surface coatings and/or contamination such as gypsum plaster, joint compound, or adhesive.

Evaluation: Look at the surface and note the type and location of the surface contamination.

Preparation: First scrape off any laps and loose material. Then use an appropriate cleaning method for the type of contamination. Examples include:
• Coatings or paints – Application over coatings is acceptable if they are well bonded and achieve a minimum of 72 psi (0.5 MPa) tensile bond strength.

Coverage
Coversages shown are approximate. Actual coverages may vary according to substrate conditions and thickness of applications.

<table>
<thead>
<tr>
<th>Application Depth</th>
<th>Weight/sq. ft. (Weight/m²)</th>
<th>Approximate Coverage per 25 lbs. (11.34 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; (6 mm)</td>
<td>1.3 lbs./sq. ft. (6.54 kg/m²)</td>
<td>24 sq. ft. (2.23 m²)</td>
</tr>
<tr>
<td>1/2&quot; (12 mm)</td>
<td>2.6 lbs./sq. ft. (12.69 kg/m²)</td>
<td>12 sq. ft. (1.11 m²)</td>
</tr>
<tr>
<td>1&quot; (25 mm)</td>
<td>5.2 lbs./sq. ft. (25.38 kg/m²)</td>
<td>6 sq. ft. (0.56 m²)</td>
</tr>
<tr>
<td>2&quot; (50 mm)</td>
<td>10.4 lbs./sq. ft. (50.77 kg/m²)</td>
<td>3 sq. ft. (0.28 m²)</td>
</tr>
</tbody>
</table>
Coating surface must be free from any contaminants that may inhibit bond. Poorly bonded or peeling coatings must be removed by mechanical method.

- Gypsum plaster and joint compound — Scrub with warm water and detergent to remove any remaining material. Thoroughly rinse off any residue and allow concrete surface to dry prior to application of any TEC® materials.

Adhesive:

- Cutback Adhesive Residue (non-asbestos) — Application over asphalt-based cutback adhesive residue is acceptable provided the residue is well bonded and can achieve a minimum of 72 psi (0.5 MPa) tensile bond strength. Scrape and remove adhesive until all that remains is a thin, transparent layer.

NOTE: Mechanical removal of cutback by sanding, grinding or blasting can be hazardous since old cutback adhesive may contain asbestos. Harmful dust may result. Inhalation of asbestos dust may cause asbestosis or other seriously bodily harm. Consult all applicable government agencies for rules and regulations concerning the removal of floorings and adhesives that contain asbestos.

- Tacky or pressure-sensitive adhesive — Do not apply TEC® underlayments over these adhesives. They must be mechanically removed by a method such as shot blasting.

CONDITION 2: Weak top layer (laitance) or damaged concrete (spalling, scaling, flaking).

Evaluation: First scrape the surface with a knife blade. If this produces a fine powder, then laitance is present. Then use a hammer or other heavy object to sound out weak or hollow areas. Note the areas that are weak or damaged.

Preparation: Weak or damaged concrete must be removed by mechanical method such as shot blasting.

NOTE: Acid washing or etching is not recommended because it is difficult to control and to fully remove contaminants and properly neutralize. The acid can penetrate into the porous concrete and chemically undermine the cement, weakening the concrete. Acid washing will not remove grease or oil.

CONDITION 3: Invisible contamination such as sealers, curing compounds or oil.

Evaluation: Sprinkle water onto the surface. If water forms droplets without absorbing immediately, the surface is probably contaminated.

Preparation: Contaminated concrete must be removed by mechanical method such as shot blasting.

Curing Compounds

- Petroleum based, wax emulsion or dissipating curing compounds must be removed by mechanical means such as shot blasting. If the type of curing compound is unknown, removal is required.

- Silicate or Acrylic resin curing compounds may be acceptable. Install primer test sample areas to evaluate bond strength first. Samples must achieve 72 psi (0.5 MPa) gap between sheets. Underlayment fasteners should not penetrate joints below. For ¼" (19 mm) tongue and groove subfloor thickness over joists 16" (40 cm) o.c., install Exterior Grade Plywood underlayment, minimum thickness is ¼" (12 mm) gap between sheets. Underlayment fasteners should not penetrate joints below. For ¼" (19 mm) tongue and groove subfloor thickness over joists 16" (40 cm) o.c., install Exterior Grade Plywood underlayment, minimum thickness is ¼" (12 mm) gap between sheets.

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TENSILE BOND STRENGTH. PRIME WITH TEC® MULTIPURPOSE PRIMER FULL STRENGTH (UNDILUTED). NEXT, STAPLE ⅛" (6 MM) GALVANIZED DIAMOND METAL OR PLASTIC LATH TO THE FLOOR OVERLAPPING 2" (5 CM) AT SEAMS. STAPLE EVERY 6" (15 CM) AROUND THE PERIMETER AND OVERLAP, AND EVERY 8" (20 CM) IN THE FIELD OF THE LATH. MAINTAIN MINIMUM THICKNESS FOR LEVEL SET® LW-60 OF ½” (19 MM), FROM THE HIGHEST POINT OF THE FLOOR.

STORAGE
STORE IN COOL, DRY AREA AWAY FROM DIRECT SUNLIGHT. DO NOT STORE OPEN CONTAINERS.

SHELF LIFE
MAXIMUM OF 1 YEAR FROM DATE OF MANUFACTURE IN A SECURE, PROPERLY STORED PACKAGE.

LIMITATIONS
- FOR INTERIOR USE ONLY.
- DO NOT TROWEL.
- DO NOT USE AS A WEARING SURFACE. FOR A WEARING SURFACE, USE TEC® LEVEL SET® WEAR TOPPING.
- DO NOT OVERWATER, RETEMPER OR ADD ANY ADDITIVES.
- DO NOT INSTALL OVER DIMENSIONALLY UNSTABLE SUBSTRATES SUCH AS PARTICLE BOARD, PLYWOOD, ASBESTOS OR CHIP BOARD.
- DO NOT ALLOW HEAVY OR SHARP METAL OBJECTS TO BE DRAGGED DIRECTLY ACROSS THE LEVEL SET® LW-60 SURFACE.

CAUTIONS
READ COMPLETE CAUTIONARY INFORMATION PRINTED ON PRODUCT CONTAINER PRIOR TO USE. FOR MEDICAL EMERGENCY INFORMATION, CALL 1-888-853-1758.

NOTE: 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 TEC® 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 CONSEQUENCES.

4. TECHNICAL DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Test Standard</th>
<th>Typical Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 Day Compressive Strength</td>
<td>ASTM C109</td>
<td>&gt; 4000 psi (27.59 MPa)</td>
</tr>
<tr>
<td>28 Day Flexural Strength</td>
<td>ASTM C348</td>
<td>&gt; 1100 psi (7.59 MPa)</td>
</tr>
<tr>
<td>28 Day Shrinkage</td>
<td>ASTM C157</td>
<td>&lt; -0.07%</td>
</tr>
</tbody>
</table>

GREATER THAN: >
GREATER THAN OR EQUAL TO: ≥
LESS THAN: <
LESS THAN OR EQUAL TO: ≤

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Physical State</th>
<th>Color</th>
<th>Working Time</th>
<th>Walkable Hardness</th>
<th>Flooring Installation*</th>
<th>Ideal Flow Range (ASTM C1708)</th>
<th>Storage</th>
<th>Shelf Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Dry powder</td>
<td>Gray</td>
<td>25-35 minutes</td>
<td>3-4 hours</td>
<td>Non-moisture sensitive tile and stone: 4 hours Moisture sensitive floor coverings: 16-24 hours</td>
<td>5-6 inches (12.7-15.2 cm)</td>
<td>Store in cool, dry location. Do not expose to nor store in direct sunlight. After opening, remove air from bag and seal tightly.</td>
<td>Maximum 1 year from date of manufacture in properly stored, unopened package.</td>
</tr>
</tbody>
</table>

NOTE: LEVEL SET® LW-60 IS NOT A WEARING SURFACE AND SHOULD BE PROTECTED FROM CONSTRUCTION TRADE TRAFFIC UNTIL THE FINAL FLOOR COVERING IS APPLIED.

5. INSTALLATION INSTRUCTIONS

MIXING
FOR BARREL MIXING: MIX 2 BAGS OF LEVEL SET® LW-60 AT A TIME. IN A CLEAN 20-25 GALLON CONTAINER ADD 6.0 QTS. (5.7 L) OF CLEAN, COOL POTABLE WATER FOR EACH 25 LB (11.34 KG) BAG. NEXT ADD THE LEVEL SET® LW-60, WHILE MIXING AT FULL SPEED USING AN EGGBEATER MIXING BLADE ATTACHED TO A HEAVY-DUTY ¼" (12 MM) DRILL MIN. (650 RPM). DO NOT ADD EXTRA WATER.

FOR APPLICATIONS UTILIZING A PUMPING SYSTEM: LEVEL SET® LW-60 CAN BE MECHANICALLY MIXED USING EITHER AN IN-LINE CONTINUOUS MIXER AND PUMP OR A BATCH MIXER AND PUMP USING 6.0 QTS. (5.7 L) OF CLEAN POTABLE WATER FOR EACH 25 LB (11.34 KG) BAG OF POWDER. THE MINIMUM REQUIRED HOSE LENGTH IS 100 FT. (30.5 M) FOR IN-LINE MIXERS. DO NOT USE FOR PUMPING APPLICATIONS THAT HAVE A HORIZONTAL HOSE LENGTH OF 300 FT OR A VERTICAL HOSE LENGTH OF 40 FT.

BEFORE STARTING INSTALLATION, SHOVEL THE MIXER AND PUMPS COMPLETELY CLEAN AND IN A GOOD WORKING ORDER. REFER TO THE MANUFACTURER INSTRUCTIONS FOR SPECIFIC MAINTENANCE AND CLEANING. PRIOR TO LEVEL SET® LW-60 INSTALLATION, ADJUST THE MIXTURE TO ENSURE PROPER MIXING AND THAT A UNIFORM DISTRIBUTION OF SAND IS ACHIEVED THROUGHOUT THE MIX. DO NOT OVERWATER THIS WILL LOWER THE STRENGTH AND MAY CAUSE CRACKING AND/OR PINHOLING. AVOID SEGREGATION AND OVER WATERING DURING INSTALLATION, THE WATER SETTINGS MAY REQUIRE ADJUSTING. CHECK THE PRODUCT CONSISTENCY TO ENSURE A UNIFORM DISTRIBUTION OF THE AGGREGATES DURING PUMPING.

5. INSTALLATION INSTRUCTIONS

MIXING

FOR BARREL MIXING: Mix 2 bags of Level Set® LW-60 at a time. In a clean 20-25 gallon container add 6.0 qts. (5.7 L) of clean, cool potable water for each 25 lbs. (11.34 kg) bag. Next add the Level Set® LW-60, while mixing at full speed using an eggbeater mixing blade attached to a heavy-duty ¼" (12 mm) drill (min. 650 rpm). Do not add extra water. Mix completely for a minimum of 2 minutes until lump free, adding no additional water. Avoid over-watering, over mixing or moving the mixer up and down during mixing as this will entrap air, lower the strength and may cause cracking and/or pin holing. The formation of a white film on the surface is an indication of over wetting. To keep the job moving, it is recommended that two mixing drums be used simultaneously. This will allow one mixing container to be poured while the other is being mixed. After use clean all mixing equipment thoroughly to avoid hardened product in subsequent batches.

FOR APPLICATIONS UTILIZING A PUMPING SYSTEM: Level Set® LW-60 can be mechanically mixed using either an inline continuous mixer and pump or a batch mixer and pump using 6.0 qts. (5.7 L) of clean potable water for each 25 lb (11.34 kg) bag of powder. The minimum required hose length is 100 ft (30.5 m) for In-Line Mixers. Do not use for pumping applications that have a horizontal hose length of 300 ft and/or a vertical hose length of 40 ft.

Before starting ensure the mixer and pumps are completely clean and in good working order. Refer to the manufacturer instructions for specific maintenance and cleaning. Prior to Level Set® LW-60 installation adjust the pump to ensure proper mixing and that a uniform distribution of sand is achieved throughout the mix. Do not overwater as this will lower the strength and may cause cracking and/or pinholing. To avoid segregation and over watering during installation, the water settings may require adjusting. Check the product consistency to ensure a uniform distribution of the aggregates during pumping. The conditions that can affect the overall performance are, but not limited to, length of hose, temperature, water pressure, substrate, ambient air temperature and powder temperature. On the end of the hose attach a mesh-screen sock to trap any foreign or unmixed material. Always test pump using the actual maximum hose length and conditions before installation to ensure proper application and appearance is achieved.

NOTE: For applications utilizing a pump system, please contact TEC® Technical Services.

APPLICATION

APPLY WHEN AIR AND SUBSTRATE TEMPERATURES ARE BETWEEN 40°F (4°C) AND 100°F (38°C) WITHIN 24 HOURS OF APPLICATION. FOR APPLICATIONS OUTSIDE THIS RANGE OF TEMPERATURES, CONTACT TEC® TECH NICAL SERVICES.

CLOSE ALL WINDOWS, DOORS AND HVAC VENTS TO MINIMIZE AIR FLOW. DIVIDE THE AREAS TO PERMIT CONTINUOUS PLACEMENT WITHOUT COLD JOINTS. POUR OR PUMP THE BLENDED LEVEL SET® LW-60 ON TO THE FLOOR AND DISPERSE WITH A GAUGE RAKE FOLLOWED BY SMOOTHING THE MATERIAL WITH A SURFACE SMOOTHER. USE CLEATED SHOES TO AVOID LEAVING MARKS. TO PREVENT RIDGES BETWEEN BATCHES, USE A SMOOTHER TOOL AND WORK A NARROW DIMENSION. OPTIMUM RESULTS CAN BE OBTAINED BY PROVIDING A CONTINUOUS WET FLOW THROUGHOUT THE PLACEMENT. LEVEL SET® LW-60 HAS A WORKING TIME OF 25-35 MINUTES AT 70°F (21°C). TEMPERATURE AND HUMIDITY WILL AFFECT WORKING TIME AND SET TIME. OUTGASING CAN OCCUR WHEN APPLYING MULTIPLE LIFTS. IF CAPPING IS REQUIRED CONTACT YOUR TEC® REPRESENTATIVE.

NOTES: WHEN VINYL, WOOD OR OTHER TYPES OF FLOOR COVERINGS ARE TO BE INSTALLED OVER LEVEL SET® LW-60, THE REQUIREMENTS OF THE FLOOR COVERING MANUFACTURER ARE TO BE FOLLOWED WITH RESPECT TO, BUT NOT LIMITED TO, LEVELS OF MOISTURE. LEVEL SET® LW-60 WILL NOT CORRECT OR COMPENSATE FOR A STRUCTURALLY DEFECTIVE SUBSTRATE. FAULTS IN THE SUBSTRATE CAN APPEAR IN THE UNDERLAYMENT. THE USE OF ALKALI RESISTANT GLASS FABRIC OR GALVANIZED METAL REINFORCING (FEDERAL SPECIFICATION QQL 101C) CAN BE HELPFUL IN REDUCING REFLECTIVE CRACKING.

CLEAN-UP

USE CLEAN POTABLE WATER TO CLEAN ALL TOOLS IMMEDIATELY AFTER USE.

CURING

PROTECT FROM EXCESSIVE DRYING DUE TO TEMPERATURE, AIR MOVEMENT AND DIRECT SUNLIGHT. THE USE OF DAMP CURING OR THE USE OF CURING COMPOUNDS IS NOT RECOMMENDED. TURN OFF ALL FORCED AIR VENTILATION AND RADIANT HEATING SYSTEMS WHenever POSSIBLE FOR UP TO 24 HOURS AFTER INSTALLATION.

NOTE: Level Set® LW-60 is not a wearing surface and should be protected from construction trade traffic until the final floor covering is applied.

TEC® Level Set® LW-60 High Quality, Ultra-Light Self-Leveling Underlayment Product Data
TEC® Level Set® LW-60 High Quality, Ultra-Light Self-Leveling Underlayment ___________ Product Data

6. AVAILABILITY
TEC® Premium Tile and Stone Installation Products are available nationwide.
To locate TEC® products in your area, please contact:
Phone: 800-832-9002
Website: tecspeciality.com

7. LIMITED WARRANTY
The products covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. H.B. Fuller Construction Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product. For Limited Warranty details visit tecspeciality.com.
To obtain a hard copy of the Limited Warranty call H.B. Fuller Construction Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.

8. MAINTENANCE
Not applicable

9. TECHNICAL SERVICES
Technical and safety literature
To acquire technical and safety literature, please visit our website at tecspeciality.com.

10. FILING SYSTEM
Division 9