LEVEL-RIGHT® LDF

THE REVOLUTIONARY LOW DENSITY CEMENT FOR SEVERELY OUT-OF-LEVEL FLOORS

• Ultra lightweight
• Density of 28–32 pcf
• Not moisture sensitive
• Can be sloped
• No thickness limitation
• Fast drying
• Pours over conduit, wires, pipes, etc.
• Thermal properties

FAST DRYING AND LOW DENSITY

Level-Right® LDF is an innovative lightweight product made from proprietary cement and a lightweight aggregate. The tiny aerated Level-Right LDF aggregate gives the cement a range of unique properties, including sound and thermal insulation. The product is stable, easy to place, and freeze and thaw resistant.

Approximately 20% the weight of typical concrete, Level-Right LDF is ready-mixed, only requiring the addition of water, which provides consistent quality for every job.
TECHNICAL DATA

- Compressive Strength: up to 400 psi (2.8 MPa) ASTM C109
- Freeze/Thaw Resistance: No Loss @ 300 cycles ASTM C666
- Density: Wet cast: 32–36 lbs/ft³ (513–577 kg/m³)
  28 day dry cast: 28–32 lbs/ft³ (449–513 kg/m³)
- Flexural Strength: 119 psi (0.82 MPa)
- Mod of Elasticity: 1.1 GPa ASTM C649
- R-Value: 1.8 per inch

INSTALLATION

Level-Right® LDF with a Maxxon Underlayment topping is a two day application procedure.

DAY 1: LEVEL-RIGHT LDF INSTALLATION

SURFACE PREPARATION — All subfloors must be structurally sound, solid, free of dirt, mud, dust, grease, curing and sealing compounds, and other contaminating factors. All subfloors must be dry and a minimum of 50 °F (10 °C).

PRIMING — The wood, concrete or corrugated galvanized metal substrate must be primed with Maxxon® Floor Primer or Maxxon Acrylic per manufacturer’s recommendations.

MIXING —

<table>
<thead>
<tr>
<th>Level-Right LDF Bags</th>
<th>Water Demand</th>
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<tbody>
<tr>
<td>1</td>
<td>2.0 – 2.2 gal (7.6 – 8.3 L)</td>
</tr>
<tr>
<td>2</td>
<td>4.0 – 4.4 gal (15.1 – 16.6 L)</td>
</tr>
<tr>
<td>3</td>
<td>6.0 – 6.6 gal (22.7 – 25.0 L)</td>
</tr>
<tr>
<td>4</td>
<td>8.0 – 8.8 gal (30.3 – 33.3 L)</td>
</tr>
<tr>
<td>5</td>
<td>10.0 – 11.0 gal (37.9 – 41.6 L)</td>
</tr>
<tr>
<td>6</td>
<td>12.0 – 13.2 gal (45.4 – 50.0 L)</td>
</tr>
</tbody>
</table>

NOTE: Do not over water.

APPLICATION — Depending on deep fill criteria:
- Set eyelets on finishing rake to desired thickness OR
- Set grade pins or pull string lines to desired thickness

Pump material in place using one of the above filling techniques. Level-Right LDF is typically ready for foot traffic and topping in 6–12 hours (next day).

DAY 2: TOPPING LEVEL-RIGHT LDF WITH MAXXON UNDERLAYMENTS

SURFACE PREPARATION OF LEVEL-RIGHT LDF — Maxxon Underlayments can be installed over Level-Right LDF. Prime the Level-Right LDF with Maxxon Floor Primer or Maxxon Acrylic per manufacturer’s recommendations. The thickness of the topping material will vary depending on end use of space. Typically a minimum 3/4" (19 mm) topping is required for gypsum based underlayment and cementitious underlayment.

LIMITATIONS

1. Do not pour Level-Right LDF where the floor temperature is less than 50 °F (10 °C) or greater than 100 °F (37.7 °C).
2. Protect the poured mortar from wind and sun, and from freezing temperatures for the first 72 hours.
3. The structural floor should be adequate to withstand design loads with deflection limitations of L/360. The structural subfloor and floor joist must both comply with manufacturers’ maximum span criteria. Typically a deflection limitation of L/360 is adequate for Maxxon Underlayments. Some floor coverings may require a stiffer floor system. Maxxon Underlayments are non-structural and therefore cannot be expected to reinforce structurally deficient subfloors. Necessary allowances should be made for expected live, concentrated, impact, and/or dead loads including the weight of finished floor goods and setting beds.
4. Additional consideration should be taken for concentrated/ dynamic loads. U.S. building codes typically specify a uniform live load of 40 pounds per square foot for residential floor designs. This load is intended to account for large loads that can occur in a building. In reality these loads are not uniform, but rather consist of items such as furniture and appliances that actually induce concentrated loads far exceeding 40 lbs per sq ft. Rolling concentrated loads such as office chairs, wheel chairs, and motorized scooters add turning, twisting, repetition, and other dynamics which should also be taken into consideration. Determining the appropriate structural design of the floor is not the responsibility of Maxxon nor the Maxxon applicator.
5. Level-Right LDF is for interior use only; it is not intended for use as a wear surface, or for direct glue down finished floor goods.
6. Level-Right LDF will not structurally bridge over expansion joints. They should be allowed to continue through the Level-Right LDF. The architect or structural engineer must specify expansion joints and show their location in areas that will receive hard surface floor goods and setting beds.
7. Concrete moisture or vapor emission must be eliminated by others prior to a Level-Right LDF application for below grade, on grade, or suspended slabs.

TECHNICAL SERVICES

Technical performance verification and service is available through Maxxon Corporation or Maxxon Regional Representatives throughout North America.

COVERAGE (per 37 lb. Bag)

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>36 ft² (3.34 m²)</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>24 ft² (2.23 m²)</td>
</tr>
<tr>
<td>1&quot;</td>
<td>18 ft² (1.67 m²)</td>
</tr>
<tr>
<td>1½&quot;</td>
<td>12 ft² (1.11 m²)</td>
</tr>
<tr>
<td>2&quot;</td>
<td>9 ft² (0.84 m²)</td>
</tr>
<tr>
<td>3&quot;</td>
<td>6 ft² (0.56 m²)</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4.5 ft² (0.42 m²)</td>
</tr>
<tr>
<td>6&quot;</td>
<td>3 ft² (0.28 m²)</td>
</tr>
</tbody>
</table>

WARRANTY: Maxxon® Corporation warrants Level-Right LDF to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the raw materials or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of Level-Right LDF. Because Maxxon Corporation does not perform the actual installation, it cannot be held responsible for the results of the application. Maxxon Corporation specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques. This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness for a particular purpose and all other obligations or liabilities on Maxxon Corporation’s part. Maxxon Corporation neither assumes nor authorizes any person to assume for Maxxon Corporation any liability in connection with the sale and installation of Level-Right LDF.

LEED INFORMATION

For information regarding how Level-Right LDF may contribute toward points for LEED project certification, contact your Regional Representative at (800) 356-7887 or visit www.maxxon.com/go_green.