



matting / athletics / flooring

## INSTALLATION - FORMATIVE CLIC

### GENERAL INFORMATION

Formative Clic flooring is the newest generation of high-quality resilient flooring. It is a modular, click-together commercial floor covering with a unique interlocking edge design that allows for easy installation.

This product must be used for interior applications only and be installed by professional installers that have sufficient professional liability insurance coverage (aka Errors and Omissions Insurance) for the project. Caution should be used in the moving and lifting. Allow for appropriate equipment and manpower to safely move materials. Work safe and always follow the relevant safety procedures.

Edgewood Matting Ltd. recommends installing and maintaining entrance matting at all outdoor entrances; this will improve air quality, reduce maintenance costs, and lengthen the life of your floors.

Proper glides must be used on all furniture that may slide directly across the floor, consult the furniture manufacturer for recommendations for use on resilient flooring. Heavy objects must not be moved directly across the floor; use protective boards.

Direct sunlight can cause UV damage (fading or bleaching) to most interior finishes, so Low E glass should be selected that will reduce the UV transmission to less than 1%. If not, applying 3M™ protection film (or similar) on the windows is recommended.

Do not install any material that has visible defects or damage. A contractor that installs any material that has visible defects or damage assumes responsibility for the damaged material.

All Safety Data Sheets (SDS) and Installation, Maintenance and Warranty requirements must be read, understood and followed.

These instructions supersede any verbal or written instructions from Edgewood Matting Ltd. representatives, and must be followed in order for the limited warranty to be in effect.

### CONDITIONS, STORAGE AND ACCLIMATION

#### Concrete Moisture Limits

Moisture testing must follow the protocol of ASTM F2170, (ASTM 1869 may be conducted as well, but only as a secondary indicator). Test results must not exceed the published limits below.

It may not be the flooring contractors' responsibility to conduct moisture testing. It is, however, the flooring contractors' responsibility to make sure these tests have been conducted and that the results are acceptable prior to installation. Testing should be performed by an International Concrete Repair Institute (ICRI) certified technician; please visit <http://www.icri.org>.

All on or below grade concrete subfloors must also have a confirmed effective vapor retarder pre-installed underneath that meets the requirements of ASTM 1745. If not, then use a moisture mitigation system that conforms to ASTM F3010. This system must be applied following the manufacturers' written instructions.

This product is not suitable for use in areas that are permanently wet. Test the surface for porosity according to ASTM F3191. The water droplet must be absorbed within five minutes to be considered porous. If porous, no further action is required regarding moisture. If the subfloor is non-porous concrete, then install a vapor retarder ( $\geq 6$  mil thick) on the surface prior to installing the floor.

#### Concrete Subfloors

New and existing concrete subfloors should meet the guidelines of the latest edition of ACI 302 and ASTM F710. Floors must be smooth, permanently dry, clean and free of all foreign material such as dust, wax, solvents, paint,

grease, oils and adhesive residue. The surface must be hard, dense and free from powder or flaking. New concrete slabs must be dry. Maximum moisture level per ASTM 1869 (CaCl test method) is 8 lbs. Maximum level for ASTM2170 (In-situ Relative Humidity test method) is 85%. Do not install over concrete with a history of hydrostatic conditions. The pH level of concrete should be between 7- 10.

The final responsibility for determining if the concrete is dry enough for install of the flooring lies with the floor covering installer.

### **Wood Subfloors**

Do not install material over wood subfloors that lay directly on concrete, or over dimensional wood lumber, or plywood used over concrete.

All other subfloors such as plywood, OSB, particleboard, chipboard, wafer board, etc. must be structurally sound and must be installed following their manufacturer's recommendations. Local building codes may only establish minimum requirements of the flooring system and may not provide adequate rigidity and support for proper installation and performance. Refer to ASTM F1482 for wood panel underlayment recommendations.

### **Storage & Acclimation**

The boxes of Formative Clic must be stored flat and neat (without overhanging). If appropriate, they can be left on the transport pallet. Never store outdoors in shipping containers.

## **INSTALLATION INSTRUCTIONS**

### **Tools**

Personal protective equipment (PPE) – HEPA filtered vacuum – measuring tape – straight edge – utility knife with straight blades – thermo-hygrometer – Infrared thermometer – tapping block – pull bar – rubber hammer – 1/8" to 3/8" (3mm – 10 mm) spacers – T-square – camera phone

### **Inspection**

If the wrong product or product with obvious defects or other damage has been shipped, do not install it. Contact Edgewood Matting Ltd. immediately. Use product from the same batch only in any given area, and randomly shuffle prior to installing.

### **Installation Note:**

The flooring can be installed over existing smooth, single layered flooring that has a density of greater than 31.2 lbs / ft<sup>3</sup> (similar to plywood) and that is fastened by nails or glue to its substrate. This product is not suitable for outdoor use, sunrooms, solariums or saunas. This flooring will warp if subjected to excessive heat and will shrink if exposed to excessive cold. We also recommend you do not install in rooms in which the temperature is not

controlled. Exposure to long term direct sunlight can cause expansion damage to your floor. After installation, the ambient temperature must remain between 41 and 95 degrees Fahrenheit.

### **Subfloor Preparation**

First, ensure the area is clean (HEPA filtered vacuum). The subfloor surface must be smooth, flat, level, dry, clean and solid. Any adhesive residue must be removed to ensure proper installation. The subfloor should be flat within a tolerance of 3/16" (5mm) over a span of 10 feet or 1/8" (3mm) over a span of 6 feet. Any unevenness past these tolerances must be remediated. Irregularities in the subfloor will cause telegraphing and may prevent the flooring from locking properly.

### **Installation**

Note: mix planks from multiple boxes to limit shade variations.

- When installing on concrete, it is necessary to install 6 mil (0.2mm) polyethylene sheeting as a vapor retarder. Overlap the edges of the polyethylene sheets by a minimum of 8" and seal the overlap with moisture-proof self-adhesive tape; this will prevent any moisture/vapor penetration from below the flooring, which could create residue and swelling of the flooring surface.
- Installation should begin with a corner and proceed from the wall with the tongue facing the wall. At all walls and near any object/fixture that is fixed to the flooring substrate, allow a minimum gap of 3/8" (10 mm) for product expansion.
- The flooring must be able to expand and contract in all directions to accommodate temperature fluctuations. The greater the surface area, the greater the room for expansion required. Please allow a 1centimeter expansion gap at all walls and anything that is fixed to the flooring substrate. Do not install continuous flooring that is greater than 80 linear feet or greater than 4,000 square feet. Expansion joints are also required in doorways and between adjoining areas where adjacent flooring is installed. Use a T-molding to cover the expansion joint. Never screw the planks to the substrate.
- When laying the first row in a straight line, interlock the short ends by dropping the tongue into the groove and then pressing firmly on the short end until a sound is heard. NEVER hit on the pieces. If you need to tap to engage the clip system, tap gently with a rubber hammer on top of the board ONLY. Make sure that the two planks are even, which means that the interlocking system is well connected. Install

sequential plank on the short end and ensure to line up evenly. Place this first row along the wall respecting the minimum gap of 3/8" by using spacers. There should be no visible gap between the planks. To separate short sides, do not lift the pieces but rather slide them apart.

- When installing planks, you must stagger the short ends from one row to another by a minimum of 8".
- To start the second row, measure and mark the planks, then using a straight edge and utility knife, score the plank and snap it.
- Always start the next row with the piece remaining from the previous row unless that piece is less than 8" long. Engage long side with the receiving row while aligning the short end to that of the previous piece. Lock the long side by dropping it to the floor while dropping the short sides into one another. Run your thumb along the short side until you hear a clicking sound, which confirms that the clip is engaged.
- When installing the last row, cut the pieces lengthwise while ensuring to keep proper expansion space from wall as mentioned above. Complete the installation by installing your baseboard moldings covering the flooring's expansion gaps. To install transition moldings, glue the molding to the track or subfloor but never to the flooring itself.

Note: to separate planks joined by the short ends, do not lift the planks. Slide horizontally in the opposite direction.