



## **Installation Guide**

### **G-Flex™ 2000: Series 600 & 700—Dual Durometer**

This guide is for the installation of dual layered G-Flex systems. Approved adhesives include OTS 1011, APT 2500, or Nordot products. Consult manufacturer for specific characteristics.

Dual durometer systems include a black basemat plus a wearing course overlay of vulcanized EPDM. The basemat is typically a black mat that is an engineered thickness and density with respect to the shock absorption or return of energy. The wearing course is the durable playing surface that is typically a colored EPDM sheet that has been cut to a specified thickness.

#### **PART 1**

- A. Inspect concrete slab for proper acceptable tolerance and moisture content. Do not install if the moisture content is greater than 5%. Allow new concrete a minimum of 60 days to cure before testing for moisture content.
- B. Concrete slab shall be broom cleaned by general contractor. Sub-floor shall be clean, dry and free from dust, oil, grease, paint, alkali, concrete curing and hardening agents, old adhesive residue or other foreign substances.
- C. Installation contractor to approve sub-floor conditions prior to commencement of work.
- D. Permanent heat light and ventilation shall be installed and operating during and after installation. The general contractor shall provide an area where stored materials can be maintained at a minimum of 55 degrees and less than a 50% relative humidity. Moderate room temperature of 65 degrees or more shall be maintained for a week prior to, during and after the installation.
- E. Flooring installation shall not begin until all subcontracts work that cause damage, or interruption of the normal installation pace of the G-Flex system is completed. The installation areas shall be closed to all traffic and other trade activity for the time required by the flooring contractor.
- F. Environmental Limitations
  - a. Comply with all requirements of athletic flooring material suppliers requirements.
  - b. Adhere to all MSDS requirements of athletic flooring materials employed in the work. Protect all persons from exposure to any hazardous material that may be employed.

#### **PART 2**

- A. Prepare a plan of the basemat roll layout so as to minimize cuts, align the seams and butt joints, and reduce waste. Plan for the location of seams and joints for a more aesthetic surface. Mark reference lines for the roll layouts to guide the installation.
- B. The basemat roll direction should be 90 degrees bias to the EPDM wearing course. Unroll the G-Flex basemat rolls with the curved face down and allow them to relax before cutting and installation.

- C. The basemat is to be glued down 100% to the substrate. Thoroughly mix the polyurethane adhesive according to the manufacturer's recommendations. Apply the adhesive directly onto the concrete, using a 1/8" notched trowel, to 1/2 the width of a roll. Make sure that the adhesive and roll make complete contact. Do not use too much adhesive or it will come up through the matrix or the seams. If a glue splotch or seam bleeds onto the surface, dab it with a rag dampened with MEK, Zylene, Acetone, or Toluene. Do not wipe or soak with solvent or the G-Flex will be damaged.
- D. Next roll back one half of the roll and apply the adhesive to the remaining 1/2 of the roll width plus one half of the width of the next adjacent roll. Place the adjacent roll into alignment and overlap the seam 1/8" and roll out the sheet. When the sheet is in place, tuck, press or roll the 1/8" overlap edge into place and begin rolling the surface. Use a 90 lb. roller immediately after and for 1-2 hours after installation until the adhesive is cured and all butt and edge joints are tight. Do not walk on the G-Flex basemat material while the adhesive is still wet. (other than a single crew member using the 90 lb roller). Wait for the glue to fully set before continuing work on the floor (12-24 hours).
- E. After the basemat is in place, prepare the wearing course (colored EPDM rolls) by unrolling and allowing them to acclimate and relax for 24 hours.
- F. Working on the top of the basemat, and at a 90 degrees bias, repeat the procedure of applying adhesive to the top of the black basemat, at 1/2 the width of the EPDM roll (about 2') and place the EPDM sheet into the adhesive. Make sure that the adhesive and sheet make full contact, and continue laying rolls according to the desired orientation. Use a 90 lb. roller immediately after and for 1-2 hours after installation until the adhesive is cured and all butt and edge joints are tight. Do not walk on the G-Flex EPDM material while the adhesive is still wet (other than a single crew member using the 90 lb roller). Do not use too much adhesive or it will come up through the matrix or the seams. **THIS CAN BE DISASTROUS** and mar the appearance of the surface. Do not wipe or soak excess adhesive with solvent or the G-Flex will be damaged.
- G. Use a utility knife and straight edge to neatly score off the ends. Double cut butt joints for a perfect match.
- H. Set weights (sandbags or blocks) at the seams to assure firm contact until adhesive is fully cured. Continue this procedure until all rolls are in place.
- I. After the floors are installed, the area is to be kept locked by the general contractor to allow curing time for the system. Temperature of the room shall be maintained at no less than 65 degrees.
- J. Event markings or striping can be undertaken as soon as the adhesive has cured. Consult the striping contractor as to the number of striping coats and whether or not a primer stripe may be required.
- K. No trades or personnel are allowed on the floor for a minimum of 48 hours and accepted by the Owner. Owner's use of the floor and pedestrian traffic constitutes acceptance by the Owner.