

MATEFLEX Installation Guidelines

Re: New & Existing Gymnasium Floors, Indoor.

The following guidelines are for the ProGym Plank vinyl inlay tile, style 67xx series, indoor application.

Pre-Installation

1. Fix or repair any base problems. New facilities: responsibility of General Contractor. Existing facilities: responsibility of Owner.
2. It is best to complete all other work before installing the ProGym Plank floor.
3. Sweep and/or clean the floor to be covered. New facilities: responsibility of General Contractor. Existing facilities: responsibility of Owner.
4. Acclimatize materials in room to be surfaces 24 – 48 hrs. Room temperature of 65 – 85 deg.F. must be maintained.

Installation

1. (OPTIONAL, if underlayment is desired): Roll out rubber or acoustic foam underlayment. Abut sheets side to side, within 1/8" of each other. Tape ends to floor using duct tape and pull taut so as to eliminate any undulations. Spot tape sheets together every 3 to 4 feet to prevent overlapping. Any end-to-end splices or tears of rolls can be fixed by with duct tape.
2. Establish the lengthwise centerline of the court (goal to goal direction). Pull a string line the length of the court along the centerline and fix it on both ends, approximately 1" above the base so that it will run over the tiles. Keep string line taut. Alternate: snap a chalk line.
3. Assemble the first 5 – 7 rows of planks along the center string line – goal to goal. Establish a random stagger for the planks. Align with the string line running straight down the center of the middle row of planks.
4. These center rows can be trimmed to the walls – under the goals (north/south axis of court). Save these trim pieces – they are used to establish the stagger pattern for the rest of the court.
 - 4.a. Tiles are best trimmed to fit with a tile shear. (Bullet Tools or equal.) A small circular saw may be used with care if shear not available.

5. Pre-assemble ProGym Plank tiles into long sheets (end to end). Always maintain the same orientation of the locks throughout. Put as much labor into this as possible, as this step is the most time consuming. As sheets are made, have one man begin step 6.
6. Spread out ProGym Plank sheets in accordance with the tile layout plan or to fill the area to be covered. Align the sheets along the long axis of the court – goal to goal. Start from the center rows, filling outwards. Be sure that the male/female lock orientation is maintained the same for all tiles.
Note: Do not assemble sheets at this point. Arrange the sheets in straight rows and columns, abutting them but not attaching them to each other. It is fine to leave room at the periphery for trim at this point.
7. Begin assembly of the tile panels. Use the retained trim pieces to maintain the random stagger pattern. These usually require re-trimming to align the interlocks. Beginning at one end, snap together the pre-assembled sheets to the center row of the court. Using the centerline as a guide, straighten and align this row.
8. Continue assembling rows across the floor in the same manner, continually checking to maintain squareness. Proceed from the center of the floor to each side until the entire floor is assembled, less any trim (full tiles only).
9. Cut and install any trim tiles. Final tile trim to be approximately $\frac{1}{4}$ " to $\frac{3}{4}$ " from the outside wall. All cuts to be done as neatly as possible.

Important: Trimmed tiles will lose at least one protective rim. Under stress, the vinyl tile insert may slip slightly from the base module. To prevent this, it is necessary to insert small brads through the vinyl tile insert into the base module, on each side of the tile near the protective rim.

10. It is recommended to finish with a Sanitary Cove base molding (by Roppe or others) or to fill the resulting gap with a clear silicone or other caulking compound.
11. Mask and paint all game/playing lines. Refer to line painting instructions below.

Notes:

1. Average installation requirement: Calculate labor requirement in man-hours as 2.0% (0.02) of the overall square footage. Example: 6,000 sq.ft. X 2.0% = 120 man-hours labor.

MATEFLEX

GAMELINE PRETREATMENT & PAINT APPLICATION PROCEDURES

PROGYM PLANK

1. GENERAL:

Endura EX-2C Topcoat Gameline coating is a flexible two-component type polyurethane paint. Its properties of high gloss, flexibility, color(s) and excellent gloss retention make this coating ideally suitable for sport floor surfaces.

Coverage on the sport floor surface is approximately 400 linear feet of 2" wide gamelines per unit of paint. (A unit consists of 1 quart of EX-2C FC Topcoat Component A mixed with ½ quart of Special Component B)

2. SURFACE PREPARATION:

a. Ensure that the floor is thoroughly scrubbed and free of any wax, oil, or lint. Mark off the gymnasium floor in accordance with game requirements as shown on architectural drawings. Game lines shall be accurate to layout and width of lines as indicated on plans. Apply solvent resistant masking tape (3M 233 + is recommended tape), and roll the tape very firmly to ensure the best adhesion.

Due to the unique combination of two synthetic flooring materials a two step pretreatment is required for best adhesion. The first material to apply is the P Link followed 1 hour later by the Prepare Thinner II.

- a. Apply Endura P Link to the cleaned gameline surface with a clean lint free rag or paint brush. The application must be THOROUGH and WET the entire gameline surface. WAIT 1 HOUR. Next apply Endura Prepare Thinner II THOROUGH AND WET. Allow the Prepare Thinner II to dry for 1 HOUR before application of first coat of paint.

Note: If the prepared surface is allowed to dry longer than 24 hours an additional application of the P Link must be re-applied as noted. Failure to do so will result in compromised adhesion and adhesion failure of the game lines.

3. PAINT APPLICATION:

a. Application Temperatures

Use the onsite HVAC unit to maintain ambient temperature and flooring surface temperature at normal application conditions of 18°C (65°F) to 24°C (75°F) at 50% Relative Humidity. For higher humidity above 85% use EX-2C Slow Thinner (5-15%) and/or Endura Retarder. It is important that the temperature of the mixed paint be between 20-24 °C (72° F - 75° F) as it greatly affects viscosity.

Temperatures above or below recommended conditions will decrease or increase the length of drying time.

Surface must be completely dry -Do not apply over moist or damp surfaces.

Do not mix more than is required for a 3-6 hour period. We suggest that the two-part paint be mixed with a power drill. Let it stand for half an hour before application.

b. Application Equipment

Pure bristle brush or foam brush is recommended. On large jobs a short nap 1/8" roller may be used taking caution to ensure no air entrapment between paint and the floor.

c. Application Procedure

The dual synthetic composition of the flooring may allow bleeding of the paint along the inside edge lines of the masking tape.

The application of a single coat of CLEAR 100 SFC QD to the line area that is to be painted will help eliminate this problem. This creates a "barrier" that will prevent the colored paint from running under the tape. Please note; the CLEAR 100 SFC QD must be applied over the inside edge of the tape to stop the bleeding of the paint. Allow the CLEAR 100 SFC QD to dry 2 hours (but not more than 24 hours) before applying the first color coat. If the CLEAR 100 SFC QD is allowed to dry longer than 24 hours it will need to be scuffed before application of the first coat of colored paint.

This is not a required step but will help ensure crisp gameline color edges. A unit of CLEAR 100 SFC QD represents 1 quart of EX-2C Component A combined with 1/2 quart of Special Component B.

Check to see if color is correct before combining EX-2C Component A and Special Component B. Apply by brush if possible rollers may cause air entrapment. *A Unit represents 1 quart of EX-2C Component A combined with 1/2 quart of Special Component B.*

Apply two thin wet coats with each coat at a wet film thickness of 50-60 microns. Drying time in between coats should be a minimum of 30 minutes.

Masking tape should be removed as soon as the paint has dried sufficiently to be "tacky". The tape will be difficult to remove if the paint is allowed to cure and ragged line edges will occur.

If Endura EX-2C FC Topcoat is allowed to dry longer than 24 hours at normal temperatures, abrade with sandpaper or scotch bright scuff pad before additional applications of topcoat.

4. CURING RATE

(Normal temperature 20 °C (70°F) to 50% R.H.)

No traffic should be permitted on the newly applied coating for at least 72 hours. Only light traffic without footwear should be permitted for the first 7 days.

After 7 days and up to 30 days the floor may only be dust mopped or lightly damp mopped to remove dust, light debris, etc.

5. SCRUBBING

Do not scrub the floor for at least 30 days after the application of the Endura EX-2C FC Topcoat Game lines

6. This painting process is intended to be a permanent application. However, as with most textured or engineered flooring periodic touch up of the painted surface may be required.

Note: The cleaning solution should be a non-abrasive, phosphate free, biodegradable type and diluted to the manufacturers' recommended directions.

Note: Take time and be prepared before starting the job. A proper work schedule that meets all the job requirements is very important.

Correcting problems with gameline application after the installation can be very difficult, expensive and time consuming.

For technical assistance, please contact CanAm Coatings Ltd. at 619-937-0430.

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PHYSICAL PROPERTIES

Resistance to:

- Solvents: Excellent**
- Organic chemicals: Very good**
- Acids and alkalis: Excellent**
- Temperature variations: Excellent**

Temperatures:

- 40°C to 200°C maximum**
- 40°F to 390°F maximum**

Flash point:

- 4°C (25°F)**

Colors:

- Available in 9 high gloss solid colors. Special matched colors also available in when requested.

Viscosity of the mix:

- 20-30 sec. #4 Ford Cup.**

Pot life:

- 3 to 6 hours.**

Note: Once mixed, adding solvent cannot extend pot life.

Clean Up:

- ACETONE.

Shelf Life:

- Endura EX-2C FC Topcoat Component A will keep 36 months and Special Component B will keep at least 12 months in original unopened containers depending on storage conditions. Store in cool dry place.