

Installation Guidelines: Tennis Courts

Re: New & Existing **Tennis Courts**.

The following guidelines are for the Matéflex II open grid tile, style #3500, for indoor and outdoor applications.

Pre-Installation

1. Fix or repair any base problems. New facilities: responsibility of General Contractor. Existing facilities: responsibility of Owner.
 - A. General recommendations:
 1. Fill, level and repair any cracks in excess of $\frac{1}{4}$ " wide.
 2. Fill and level and cracks exhibiting a vertical shift (one side higher than the other).
 3. Level and repair any birdbaths over $\frac{1}{16}$ " deep (width of a nickel coin) after drying @ 1 hour in the sun at 70°F .
 4. Scrape and remove any loose or delaminated coatings.
 2. Sweep and/or clean the surface to be covered of any loose debris. New facilities: responsibility of General Contractor. Existing facilities: responsibility of Owner.

Installation

1. Starting as shown on Drawing A, determine the center of the court. If the net tie down bolt exists, use this as your center. If it does not exist, remove the net posts and draw a taught string line over the center of the post openings. Fix each end to the sides of the court. Measure equal distance between the posts along the string line and mark this as your center.
2. Starting from the court center measure out along the string in each direction 30 ft. to establish points A & A' (using 12.00" per tile).
3. With 100-ft. steel measuring tapes establish points B & B'.
4. Pull second string from B to B' and fix on their respective ends. Check that strings intersect at the center of the court.
5. Establish points C & C', D & D' (using 12.00" per tile) as on drawing.
6. Check diagonal of all locations to verify that all sections are square.

Note: For multiple courts in battery, use the same procedure as above (1-6), but begin from the center of the battery and adjust the perimeter dimensions accordingly (Using 12.00" per tile).

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7. Lay out tile assemblies as shown in Drawings A & B to form a perimeter of approximately 4 tiles wide.
8. Fasten down corners at points C & C', D & D'.
9. Connect all assemblies to form a continuous perimeter of tiles.
10. Pull string line taught around perimeter using points C, C', D, D' & as anchors.
11. Using the string line as a guide, line up the perimeter tiles to form a straight line between given points.
12. Use fasteners approximately every 6" (every other 3" block of the tile) to fix the tiles to the base. The fasteners should be approximately 4" (at least 1 row of 3" blocks) in from the edge of the tile, passing through the center of the grid, forming a single row around the perimeter of the court.
13. With the perimeter fixed, the tiles can be spread out in accordance with the tile layout Drawing B.
14. It is important that the tile orientation be kept uniform so that its locking devices will match up during assembly.
15. Lock all assemblies to form the four main panels, as illustrated in the final assembly Drawing C.
16. Lock sections located at A, B, C, & D to the perimeter.
17. Lock sections E to F and G to H.
18. Lock sections located at I, J, K, & L to the perimeter.
19. Lock sections M to N and P to O.
20. Note: If installation takes place on a hot sunny day, it will require a temperature cycle for the court to normalize tension throughout the surface. Usually this will take place during evening hours.
21. Follow painting procedure as shown on boundary line Drawing D.
22. The court can be trimmed to the fence by filling in between the fastened perimeter and the fence. Trim tiles may be cut by a sharp razor knife, bandsaw or circular saw.

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MATÉFLEX Line Paints: Tennis Courts

GAMELINE PRETREATMENT & PAINT APPLICATION PROCEDURES

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 **MATEFLEX** sport floor surfaces.

Coverage on the **MATEFLEX** sport floor surface is approximately 350 - 400 linear feet of 2" wide gamelines per unit of paint. (A unit consists of 1 quart of EX-2C 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.

b. **Endura P Link** is a surface pre-treatment that acts as a primer to promote good adhesion for Endura Topcoats on the **MATEFLEX** surfaces.

c. Apply P Link WET to the area to be painted.

DO NOT SPILL P Link ON AREAS THAT WILL NOT RECEIVE PAINT!

P Link needs to dry for 1 hour and the window to apply Topcoat paint is 12 hours.

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 very short 1/8" nap roller may be used taking caution to ensure no air entrapment occurs between flooring and paint. If air bubbles occur they must be removed as they will not release on their own. Dragging a brush 3 – 4 feet behind roller on final coat will remove any air bubbles.

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c. Application Procedure

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 - depending on the color - with each coat at a wet film thickness of 50-60 microns (2- 2 ½ mils). Keep flash-off time between coats to a minimum (15-30 minutes) on smooth surfaces.

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

If Endura EX-2C 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

At normal temperature 20 °C (70°F) to 50% relative humidity.

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 7-10 days.

After 10-14 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 Topcoat Game lines

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 regarding paint, please contact Tom @ CanAm Coatings at 619-937-0430

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