



## Indoor Sports Field Installation Overview

A 24 Hour Relaxation Period is recommended before gluing down turf to prevent shrinking and /or expanding after glue down. IDEAL temperatures should be above 70 degrees.

When Turf is Delivered: Check its texture, color, and style; make sure there are no visible defects before installation. Be sure the installer will adhere to the CRI 105 installation methods ([www.carpet-rug.com](http://www.carpet-rug.com)) Among other things, it requires for proper installation that turf must be power-stretched to minimize wrinkling and rippling. Seam edges must be sealed with appropriate adhesive to prevent delaminating and edge ravel.

### Floor Preparation (when not using seaming tape)

Each subfloor shall be inspected to determine the special care required to make it a suitable foundation for turf. All cracks 1/8 inch (3 mm) wide or protrusions over 1/32 inch (.8 mm) should be filled or leveled.

### Temperature and Humidity –

The environment in which the turf is to be installed must be controlled with the temperature between 65o F and 95o F (18o C and 35o C) and the relative humidity between 10%and 65%. If installing over concrete, the slab temperature should not be less than 65o F (18o C). These conditions must be maintained for at least 48 hours before, during, and 48 hours after the installation.

### Concrete -

Concrete shall be cured, clean, and dry. If the turf is to be installed using an adhesive, the concrete shall be free of paint, dirt, grease, oil, curing or parting agents, and other contaminants, including sealers, that may interfere with the bonding of the adhesive. Whenever a powdery or porous surface is encountered, a primer compatible with the adhesive shall be used to provide a suitable surface

for the glue-down installation. Patching of cracks and depressions shall be made with appropriate and compatible latex or polymer fortified patching compound. Do not exceed manufacturer's recommendations for patch thickness. Large patched areas must be primed.

### **Moisture Testing (when not using seaming tape)**

Concrete floors, even with adequate curing time, can present an unacceptable moisture condition by allowing excessive amounts of moisture vapor to pass through to the surface. This can be a problem even on suspended concrete floors. All concrete floors should be tested for moisture emission rate by utilizing an anhydrous calcium chloride moisture test kit available from installation supplies and accessories distributors. This quantitative method is very precise and must be conducted carefully, with strict attention to the test kit manufacturer's detailed instructions. Moisture emission rate is expressed in lbs/1000 sq ft/24 hours. Because the calcium chloride test for emission rate requires 3 days to conduct, proper installation planning is a must.

As a general guideline, an emission rate of 3 lbs (1.4 kg) or less is acceptable for most turf. In the range from 3 lbs to 5 lbs (1.4 to 2.3 kg), carpet with porous backings can usually be installed successfully; but the risk of moisture-related problems increases. Since some floor covering products are less tolerant of moisture than others, always consult the individual manufacturer to determine the emission rate for specific products.

### **Trimming Selvedge (edge/seam)**

Cut **face down** using straight edge and carpet knife

Use a chalk line to mark straight line for cut reference, **USE STRAIGHT EDGE TO PREVENT JAGGED EDGES.**

**FACTORY PRE-TRIM AVAILABLE, CALL FOR PRICING**

### **Turf Laying Techniques**

Start in middle of room using chalk line

Butt turf together **SQUARE** at center line

Place weight (anything over 30 pounds every 5-10 feet) starting seven feet off center line in both directions.

Optional inlaid lines, numbers and/or logos must be attached with the glued method for seaming.

Painting is an approved method for installing lines. (Pioneer Paint –Titan) Paint can only be applied on warm and dry days. Best installed above 55 degrees and no rain for 24 hours

Attach outer edges to a perimeter anchor system

## Seaming and Glue Down

*Get glue approval before starting (see bottom for list)*

**CAUTION, do not forcefully move turf when folding/unfolding, be careful as to keep turf square to the center line, and adjoining turf**

### Seam Tape

When using seam tape fold back the edges of the turf to be seamed. Roll the seam tape down the center of the opening where the turf is to be seamed. Apply glue to the seam tape using a trowel. Trowel notch size will vary between glue types. **(For any questions please contact your representative)** Proceed to roll one the turf with the turf direction away from the glue. Then roll the other side into the glue ensuring no overlapping or trapped fibers.

### Glue Down

When gluing directly to the subfloor fold back turf at center line and glue down three feet on both sides of center line for 50% glue down. When gluing directly to the subfloor, for 100% glue down, gluing down six feet of turf on both sides of center line is recommended.

**Roll turf with 100 pound roller until glue tacks up.**

## Sewn Seams

Sewing seams is also an approved method for securing seams. A sewn seam uses a special nylon or polyester cord and is to be sewn with a machine made by Textile Sales Inc. The stitching should be applied to the selvedge edge of the carpet. The sewn edge is 1/4" from the yarn. Cut off excess selvedge.

## Infill Installation

*(Entryways must be 8 ft wide x 10 ft tall to get topdressing equipment in the building)*

The infill is comprised of many small layers totaling 2.5-3.5 lbs. Per SQ.FT of clean SBR recycled rubber and 2-3 lbs of 40 mesh silica sand. SAND is required to help prevent stretching and pass strict fire ratings. SBR Ambient recycled rubber tires

sieve size 12-20 or 14-30. All steel wire, dust and other impurities must be removed before spreading. Prepare surface for topdressing by pre-brushing with street sweeper and groomer (**No steel bristles**). Obtain rubber on site. Apply infill in a uniform manner with a top dresser while continuously brushing with groomer. Continue brushing with street sweeper or sweeper type walk behind sweepers on angle going against the grain. Clean and groom surface.

### **Approved adhesives (edge/seam)**

*Please call your rep for available adhesives that can ship with turf*

### **Indoor/Outdoor Use**

Turf Claw ( $\frac{1}{4}$ " trowel spreads 130-150 lin/ft x 11 inches)

Turf Grip ( $\frac{1}{8}$ " trowel spreads-140-160 lin/ft x 11 inches)

Nordot 34-G ( $\frac{1}{4}$ " trowel spreads-130-150 lin/ft x 11 inches)

SeamSealer

SportBond ATS 04 (70 lin/ft per tube doing a 5mmbead)

***Adhesives available at Home Depot and /or Lowes can adhere to turf but are NOT designed for high traffic sports applications.***

***Feel free to contact any of our representatives for further assistance or questions.***

***Disclaimer: These instructions are only guidelines, and Controlled Products is only responsible for the manufacturing of the synthetic turf. The installation of products obtained from Controlled Products is the responsibility of the owner/installer, and Controlled Products is in no way liable for installations.***