



## Action Sport Rubber Gym Tile

### Installation Instructions – Adhesive Installation

#### SUGGESTED TOOL LIST:

Standard tape measure	Rubber mallet
Utility Knife	Broom or vacuum
Chalk line & chalk	1/16" square-notched trowel
Metal straight edge or Drywall T-square	

#### I. JOB SITE CONDITIONS

- A. Installation should not begin until after all other trades are finished in the area. If the job requires other trades to work in the area after the installation of the floor, the floor should be protected with an appropriate cover. Kraft paper or plastic work well.
- B. Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 65°F (18°C) for 48 hours before, during, and after the installation.

#### II. SUBFLOORS

Active Sport may be installed over concrete, approved Portland-based patching and leveling materials such as Ardex K-15 or equivalent, and wood.

**NOTE:** Ardex Engineered Cements  
400 Ardex Park Drive  
Aliquippa, PA 15001  
(724) 203-5000

**NOTE:** Gypsum-based patching and leveling compounds are not acceptable.

- A. Wood Subfloors – wood subfloors should be double construction with a minimum thickness of one inch. The floor must be rigid, and free from movement with a minimum of 18 inches of well-ventilated air space below.
- B. Underlayments – The preferred underlayment panel is the American Plywood Association (APA) underlayment grade plywood, a minimum thickness of 1/4", with a fully sanded face.

**NOTE:** Particleboard, chipboard, Masonite, and Lauan are not considered to be suitable underlayments.

## Action Sport Rubber Gym Tile Installation Instructions – Adhesive Installation continued

- C. Concrete Floors – Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days and meet the relative humidity requirements per ASTM F2710 or the calcium chloride moisture emission test conducted per ASTM F1869 before installing Action Sport. It must be fully cured and permanently dried.

**NOTE:** Read further for dryness requirements.

### III. SUBFLOOR REQUIREMENTS AND PREPARATION

- A. Subfloors shall be dry, clean, smooth, level, and structurally sound. They should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials, according to ASTM F710.
  - B. Subfloors should be smooth to prevent irregularities, roughness, or other defects from telegraphing through the new flooring. The surface should be flat to the equivalent of +/- 3/16" (4.8 mm) in 10' (3.0 m).
  - C. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. Do not use solvents. All high spots shall be ground level and low spots filled with an approved Portland-based patching compound.
  - D. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved Portland-based patching compound.
  - E. Expansion joints in the concrete are designed to allow for expansion and contraction of the concrete. If a floor covering is installed over an expansion joint, it will likely fail in that area. Use expansion joint covers designed for resilient flooring.
- NOTE:** Expansion joint covers can be obtained from:  
Balco, Inc.  
2626 South Sheridan  
P.O. Box 17249  
Wichita, KS 67217  
(800) 767-0082
- F. Always allow patching materials to dry thoroughly and install according to the manufacturer's instructions. Excessive moisture in patching material may cause bonding problems or a bubbling reaction with the Sport Rubber PU350 adhesive.
  - G. The maximum moisture vapor emission of the concrete must not exceed 5-1/2 lbs./1,000 sq. ft. in 24-hours, as measured by the calcium chloride moisture emission test conducted per ASTM F1869. Alternatively, if the RH method is used, the maximum RH should not exceed 85% RH tested following ASTM 2710. If the emissions exceed limitations, the installation should not proceed until the problem has been corrected.

## Action Sport Rubber Gym Tile Installation Instructions – Adhesive Installation continued

H. pH tests must be taken on all concrete floors. If the pH is greater than 9, it must be neutralized before beginning the installation.

**NOTE:** This product is suitable for installation over a radiant heat source.

### IV. MATERIAL STORAGE AND HANDLING

A. Unpack tiles and allow them to sit in the area to be installed. Tiles and adhesive must be acclimated at a uniform room temperature of 65°F for a minimum of 48 hours before installation.

**NOTE:** Dimensional tolerance for tiles is +/- 1/8". From time to time during installation, it may be necessary to measure and hand-select tiles to ensure that course lines remain straight.

As with any flooring product, dry laying and full inspection of all tiles will allow for a quality installation. Tiles should be inspected from several angles and adjust as necessary.

**NOTE:** Action Sport Tiles are manufactured from recycled materials and slight variance in shade is normal. It is the installer's responsibility to inspect all products to ensure the correct style, thickness, and color. Any discrepancies should be reported immediately before beginning the installation.

### V. INSTALLATION (FULL GLUE DOWN METHOD)

We recommend installing the Action Sport tiles in an ashlar or brick pattern.

- A. Determine a starting point for the first course of tile to best suit the site area. For irregular site configurations, the best starting point is often in the center. This will ensure a symmetrical finish for tiles that require trimming along the perimeter.
- B. Mark two points on the base surface at an equal distance from the edge of the installation. These points should be located near the opposite ends of the site in the length-wise direction.
- C. Snap a chalk line through the established points.
- D. Measure the length of the site along the chalk line. Mark a point at half the distance of the site.
- E. Using the 3-4-5 right triangle method, snap a chalk line to form a 90° angle to the previously established length-wise chalk line. These perpendicular reference lines will serve as a guide for laying the first course of tile.
- F. Installation should be with Sport Rubber Adhesive PU350 Premium Polyurethane 1-part adhesive and applied using a 1/16" square-notch trowel.

## Action Sport Rubber Gym Tile Installation Instructions – Adhesive Installation continued

- G. Spread the adhesive using a 1/16" square-notched trowel. Take care not to spread more adhesive than can be covered with flooring within 20- 30 minutes. The open time of the adhesive is 40–60 minutes at 70°F and 50% relative humidity.

**NOTE:** Temperature and humidity affect the open time of the adhesive. Temperatures above 70°F and/or relative humidity above 50% will cause the adhesive to set up more quickly. Temperatures below 70°F and/or relative humidity below 50% will cause the adhesive to set up more slowly. The installer should monitor the on-site conditions and adjust the open time accordingly.

- H. Lay the tiles into the wet adhesive making sure to not squeeze adhesive up through the tile joints.

**NOTE:** Do not allow adhesive on the top surface of the product as it is very difficult to remove. If adhesive comes in contact to the surface immediately clean the surface with a rag dampened with mineral spirits before the adhesive curing.

- I. Do not allow the PU350 adhesive to cure on your hands or the flooring. Immediately wipe off excess adhesive with a rag dampened with mineral spirits! Cured adhesive is very difficult to remove from hands. We strongly suggest wearing gloves while using any and all adhesives.

- J. If some tile joint is gapped for any reason, temporarily hold them together with 2" masking tape. Do not use duct tape as it may leave a residue on the floor. Any tile edge or seam that is raised must be weighed down using concrete utility blocks. Remove the tape and the blocks after the adhesive develops a firm set. (12-24 hours)

- K. All tile cuts should be made in a workmanlike manner using a sharp utility knife and metal straightedge when needed.

- L. Keep traffic off the floor for a minimum of 24 hours or until adhesive is fully cured.

### ADHERING THE OUTER COURSE AND RAMPS

- A. If required, ramps can be cut in the same manner as tiles. If ramps are used at a corner, each ramp should be miter cut at a 45° angle.
- B. After ramps have been properly cut, ramps and outer tile, which are not contained by walls, should be adhered to the existing floor using Sport Rubber PU350 Premium Polyurethane adhesive with a 1/16" square notched trowel indoors over the substrate. Set tiles and ramps in the adhesive bed.
- C. For areas where adhering a ramp is not an option, you may edge adhere the side heel of the reducer to the side of the tile.