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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The Project Resource Manual—CSI Manual of Practice, Fifth Edition*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” after editing this section.

Section numbers are from *MasterFormat 1995 Edition*, with numbers from *MasterFormat 2004 Edition* in parentheses. Delete version not required.

SECTION 11480 (11 66 23.59)

PROTECTIVE GYMNASIUM FLOOR COVERS

Specifier Notes: This section covers Covermaster Inc. “Ultima 5000™”, “Ultima 4000™”, and “Ultima 3000™” protective gymnasium floor covers; “Ultima Series Covermate II™” cover handling system; and optional accessories. Consult Covermaster Inc. for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

Specifier Notes: Edit the following list as required for the project.

- A. Protective gymnasium floor covers.
- B. Cover handling system.
- C. Accessories:
 - 1. Power winder.
 - 2. Dual-brush system.

3. Walk-behind tape dispenser.
4. Seaming tape.
5. Protective gymnasium floor cover cleaner.
6. Storage cover.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 09644 (09 64 66) – Wood Athletic Flooring.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ASTM D 751 – Standard Test Methods for Coated Fabrics.
- B. ASTM D 1894 – Standard Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting.
- C. Fed. Std. 191-5100 – Strength and Elongation, Breaking of Woven Cloth; Grab Method.
- D. Fed. Std. 191-5134 – Strength of Cloth, Tearing: Tongue Method.
- E. NFPA 701 – Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.
- F. UL 214 – Tests for Flame Propagation of Fabrics and Films.

1.4 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data.
- C. Samples: Submit manufacturer's samples of protective gymnasium floor covers, minimum 6 inches by 6 inches.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- E. Operation and Maintenance Manual: Submit manufacturer's operation and maintenance manual, including the following:
 1. Assembly, operation, maintenance, adjustment, and cleaning instructions.
 2. Parts list.
- F. Warranty: Submit manufacturer's standard warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged, for preceding 10 years, in manufacture of protective gymnasium floor covers and cover handling systems.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage:
 - 1. Store materials in accordance with manufacturer's instructions.

Specifier Notes: Edit the following sentence as required.

- 2. Store protective gymnasium floor covers and cover handling system [in clean, dry area indoors] [as indicated on the Drawings] [at location directed by Owner].
- C. Handling: Protect materials and finish during handling to prevent damage.

1.7 WARRANTY

- A. Warranty Period:

Specifier Notes: Include warranty period for the specified materials. Delete materials not specified.

- 1. Protective Gymnasium Floor Covers:
 - a. "Ultima 5000": 20 years.
 - b. "Ultima 4000": 17 years.
 - c. "Ultima 3000": 12 years.
- 2. Cover Handling System "Ultima Series Covermate II": 20 years.
- 3. Power Winder "Powermate": Lifetime.
- 4. Dual-Brush System: 5 years.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Covermaster Inc., 100 Westmore Drive, Unit 11D, Rexdale, Ontario M9V 5C3. Toll Free (800) 387-5808. Phone (416) 745-1811. Fax (416) 742-6837. Website www.covermaster.com. E-mail info@covermaster.com.

2.2 PROTECTIVE GYMNASIUM FLOOR COVERS

Specifier Notes: Specify "Ultima 5000", "Ultima 4000", or "Ultima 3000" protective gymnasium floor covers. Delete floor covers not required. Consult Covermaster Inc. for more information.

- A. Protective Gymnasium Floor Covers: "Ultima 5000".
 - 1. Material Properties:

- a. Surface Finish: Safety, slip-resistant, ripple pattern.
- b. Surface Treatment: Cover-Guard treated to resist odors and germs. Rot and mildew resistant.
- c. Fabric Core: Single layer, woven polyester.
- d. Filament Size: 1,500 denier.
- e. Weave Count: 30 by 30.
- f. Coating: PVC, knife/spread-coating process.
- g. Total Cover Thickness: 34 mils.
- h. Weight:
 - 1) Outer Vinyl Wear Coating, Top and Bottom: 11 ounces per square yard on each side.
 - 2) Inner Fabric Core: 10 ounces per square yard.
 - 3) Total Cover: 32 ounces per square yard.
- i. Can be used with either side up.
- 2. Mechanical Properties:
 - a. Slip-Resistant Surface, Coefficient of Friction, ASTM D 1894: 1.80. ADA compliant.
 - b. Tensile Strength, Fed. Std. 191-5100: 850 by 800 pounds.
 - c. Tear Strength, Fed. Std. 191-5134: 200 by 180 pounds.
- 3. Fire Resistance Compliance:
 - a. UL 214.
 - b. NFPA 701, large-scale test.
 - c. California Fire Marshall.
 - d. Connecticut Fire Marshall: Class 1 rating.
 - e. State of New York: Class A rating.
- 4. Construction:
 - a. Section Length: Match length of floor.
 - b. Section Width: 10 feet.
 - c. Seams: Thermally welded.
 - d. Lap Weld: Minimum 1 inch.
- 5. Colors:

Specifier Notes: Specify the color for each side of the protective gymnasium floor covers. The following are the three standard, dual-color combinations. Delete colors not required.

- a. Dual-Color Combinations: [Neutrino on 1 side, royal blue on other side] [Neutrino on 1 side, dark grey on other side] [Neutrino on 1 side, hunter green on other side].

Specifier Notes: The following are optional colors for single-color and dual-color combinations. These optional colors are subject to minimum quantities. In addition to these colors, a custom-color matching service to coordinate colors with any decor is available. Consult Covermaster Inc. for more information.

- b. Single-Color and Dual-Color Combinations: [Single color both sides] [Dual-color combination, 1 color each side]; [burgundy] [dark grey] [deep red] [hunter green] [kelly green] [light grey] [navy blue] [orange] [royal blue] [yellow].

B. Protective Gymnasium Floor Covers: "Ultima 4000".

- 1. Material Properties:
 - a. Surface Finish: Safety, slip-resistant, diamond-tread-plate pattern.
 - b. Surface Treatment: Cover-Guard treated to resist odors and germs. Rot and mildew resistant.

- c. Fabric Core: Single layer, woven polyester.
- d. Weave Count: 19 by 19.
- e. Coating: PVC, knife/spread-coating process.
- f. Weight:
 - 1) Outer Vinyl Wear Coating, Top and Bottom: 10.35 ounces per square yard on each side.
 - 2) Inner Fabric Core: 5.30 ounces per square yard.
 - 3) Total Cover: 26 ounces per square yard.
- g. Can be used with either side up.
- 2. Mechanical Properties:
 - a. Slip-Resistant Surface, Coefficient of Friction, ASTM D 1894: 0.61. ADA compliant.
 - b. Tensile Strength, Fed. Std. 191-5100: 440 pounds.
 - c. Tear Strength, Fed. Std. 191-5134: 120 pounds.
 - d. Adhesion, ASTM D 751: 35 pounds per inch.
 - e. Hydrostatic Resistance, ASTM D 751: 430 pounds per inch.
- 3. Fire Resistance Compliance:
 - a. UL 214.
 - b. NFPA 701, large-scale test.
 - c. California Fire Marshall.
 - d. Connecticut Fire Marshall: Class 1 rating.
 - e. State of New York: Class A rating.
- 4. Construction:
 - a. Section Length: Match length of floor.
 - b. Section Width: 10 feet.
 - c. Seams: Thermally welded.
 - d. Lap Weld: Minimum 1 inch.
- 5. Colors:

Specifier Notes: Specify the color for each side of the protective gymnasium floor covers. The following are the three standard, dual-color combinations. Delete colors not required.

- a. Dual-Color Combinations: [Desert sand on 1 side, royal blue on other side] [Desert sand on 1 side, dark grey on other side] [Desert sand on 1 side, hunter green on other side].

Specifier Notes: The following are optional colors for single-color and dual-color combinations. These optional colors are subject to minimum quantities. In addition to these colors, a custom-color matching service to coordinate colors with any decor is available. Consult Covermaster Inc. for more information.

- b. Single-Color and Dual-Color Combinations: [Single color both sides] [Dual-color combination, 1 color each side]; [burgundy] [dark grey] [deep red] [hunter green] [kelly green] [light grey] [navy blue] [orange] [royal blue] [yellow].

C. Protective Gymnasium Floor Covers: "Ultima 3000".

- 1. Material Properties:
 - a. Surface Finish: Safety, slip-resistant, holographic-cube pattern.
 - b. Surface Treatment: Cover-Guard treated to resist odors and germs. Rot and mildew resistant.
 - c. Fabric Core: Single layer, woven polyester.
 - d. Weave Count: 18 by 18.

- e. Coating: PVC, knife/spread-coating process.
- f. Weight:
 - 1) Outer Vinyl Wear Coating, Top and Bottom: 8.5 ounces per square yard on each side.
 - 2) Inner Fabric Core: 4.0 ounces per square yard.
 - 3) Total Cover: 21 ounces per square yard.
- g. Can be used with either side up.
- 2. Mechanical Properties:
 - a. Slip-Resistant Surface, Coefficient of Friction, ASTM D 1894: 0.66. ADA compliant.
 - b. Tensile Strength, Fed. Std. 191-5100: 375 pounds.
 - c. Tear Strength, Fed. Std. 191-5134: 90 pounds.
 - d. Adhesion, ASTM D 751: 35 pounds per inch.
 - e. Hydrostatic Resistance, ASTM D 751: 430 pounds per inch.
- 3. Fire Resistance Compliance:
 - a. UL 214.
 - b. NFPA 701, large-scale test.
 - c. California Fire Marshall.
 - d. Connecticut Fire Marshall: Class 1 rating.
 - e. State of New York: Class A rating.
- 4. Construction:
 - a. Section Length: Match length of floor.
 - b. Section Width: 10 feet.
 - c. Seams: Thermally welded.
 - d. Lap Weld: Minimum 1 inch.
- 5. Dual-Color Combination: Twilight gold on 1 side, midnight blue on other side.

2.3 COVER HANDLING SYSTEM

Specifier Notes: Consult Covermaster Inc. for custom-designed cover handling system.

- A. Cover Handling System: "Ultima Series Covermate II".
 - 1. Size:
 - a. Width:
 - 1) Outriggers Retracted: 34 inches.
 - 2) Outriggers Extended: 57-1/2 inches.
 - b. Length: 13'-2".

Specifier Notes: Specify height of six-, eight-, or 10-roller model of cover handling system.

- c. Height:
 - 1) Six-Roller Model: 5'-6".
 - 2) Eight-Roller Model: 5'-6".
 - 3) Ten-Roller Model: 6'-6".
- 2. Frame: 1-1/2-inch and 2-inch rectangular-tubular frame.
- 3. Frame Finish:
 - a. Powder coat.
 - b. Color: Silver.
- 4. Outriggers:
 - a. Provides stability against tipping.
 - b. Retractable.

- c. Two adjustable, swivel casters on each outrigger.
- d. Locking pins secure outriggers in extended or retracted positions.
- e. Color: Safety orange.
- 5. Pressure Floor Locks:
 - a. Two floor-locking brakes, 1 at each end of unit.
 - b. Foot operated.
 - c. Bolted to frame.
 - d. Locks cover handling system to floor.
- 6. Casters:
 - a. Six Colson ball-bearing casters.
 - b. Non-marking Santoprene SoftTreads treads.
 - c. One of 3 casters at each end is offset to spread load over larger area and to better protect floor.
 - d. Diameter: 6 inches.
 - e. Tread Width: 2 inches.
 - f. Tread Thickness: 3/4 inch.
- 7. Roller Collars:
 - a. On each end of each roller.
 - b. Holds roller captive.
 - c. No exposed pins. Prevents sideways movement of roller.
 - d. Eliminates finger pinch points.
 - e. Color: Bright yellow.
- 8. Roller-Bearing Brackets:
 - a. Polycarbonate brackets with Delrin roller bearings.
 - b. Mounted with 1/8-inch-thick shock-absorbing rubber pads.
 - c. Safety bolt on each roller-bearing bracket holds roller captive to prevent roller pop-ups.
- 9. Rollers:
 - a. Flo-Coat galvanized steel with clear topcoat.
 - b. Diameter: 2-1/2 inches.
- 10. Fastening Clips:
 - a. Four push-on clips for each roller.
 - b. Extruded, flexible plastic.
 - c. Color: Orange.
- 11. Loading Covers on Rollers: Two 1-piece Lexan polycarbonate hand cranks.
- 12. Certified Load Capacity: 5,400 pounds.
- 13. Assembly: Field assembled. Include instruction manual.

2.4 ACCESSORIES

Specifier Notes: Specify optional accessories required. Delete accessories not required. Consult Covermaster Inc. for more information.

- A. Power Winder: "Powermate".
 - 1. Noise Rating, Emission at Workplace: 83 dB.
 - 2. Motor:

Specifier Notes: Specify 110 V or 220 V.

- a. [110 V] [220 V], 1200 W, 50 to 60 Hz.

- b. Forward/reverse switch.
 - c. Thermal overload protection.
 - d. Automatic disconnect with reset button.
 - 3. Gear Head: Automatic infinitely variable rotation 35 to 27 rpm.
 - 4. Gear: Plastic-coated aluminum.
 - 5. Storage: Storage/carrying case.
 - 6. Housing:
 - a. Glass-fiber reinforced.
 - b. Color: Bright yellow.
- B. Dual-Brush System: “Ultima Series Coverclean”.
- 1. Mounting:
 - a. Quick connect/disconnect.
 - b. 1-5/8-inch, 14-gauge drawn channel.
 - c. Mounts on both sides of system.
 - 2. Brush Angle: Brush mounted at 35-degree angle to match path of cover travel at each roller height.
 - 3. Brush Heads: Dual-opposing heads sweep debris and dust from both sides of cover during wind-up.
 - 4. Bristles:
 - a. Two rows of 3-inch bristles.
 - b. Black, Styrene-Fiber Bristle Row: Fine sweeping.
 - c. Red, Polystyrene-Fiber Bristle Row: Heavy debris.
- C. Walk-Behind Tape Dispenser: “Tapemate”.
- 1. Material: Enameled steel.
 - 2. Front Wheel: Applies tape to cover as you walk it along.
 - 3. Handle: Adjusts to operator’s height.
 - 4. Tape Support: Drop-in place.
 - 5. Tape Size: Accommodates 3-inch wide tape.
- D. Seaming Tape: “Covertape”.
- 1. Temporarily covers overlap seams.
 - 2. Transparent.
 - 3. Easy to remove.
 - 4. Leaves no messy glue residue behind.
 - 5. Width: 3 inches.
 - 6. Length per Roll: 36 yards.
- E. Protective Gymnasium Floor Cover Cleaner: “Cleanmate”.
- 1. Concentrated, anti-static cleaning solution.
 - 2. Cleans and conditions protective gymnasium floor covers.
- F. Storage Cover: “Covermate Storage Cover”.
- 1. Covers and protects protective gymnasium floor covers stored on cover handling system.

PART 3 EXECUTION

3.1 ASSEMBLY

- A. Cover Handling System:

1. Field assemble cover handling system in accordance with manufacturer's instructions.

Specifier Notes: Include the following sentence when a manufacturer-approved assembly service will field assemble the cover handling system.
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2. Field assemble cover handling system by manufacturer-approved assembly service.
3. Ensure casters and rollers operate smoothly without binding.

- B. Dual-Brush System: Mount dual-brush system on cover handling system in accordance with manufacturer's instructions.

3.2 PROTECTION

- A. Protect protective gymnasium floor covers and cover handling system from damage during construction.
- B. Do not use protective gymnasium floor covers or cover handling system to protect gymnasium floors during construction.

END OF SECTION