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BONDED RUBBER

PLAYGROUND SAFETY SURFACING SPECIFICATION

I. GENERAL

1.1 DESCRIPTION

- A. Single-density, resilient, seamless, bonded rubber, playground safety surfacing.

1.2 RELATED DOCUMENTS

- A. Maintenance and Cleaning Instructions
- B. Warranty
- C. Aggregate Subsurface Specification
- D. Concrete Subsurface Requirements
- E. Asphalt Subsurface Requirements

1.3 REFERENCES

- A. ASTM F 1292 - Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
- B. US Consumer Product Safety Commission (CPSC) Public Playground Safety Handbook.

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions.
- B. Samples: Submit manufacturer's samples of bonded rubber playground safety surfacing showing texture, color, and thickness.

- C. Test Reports: Submit certified test reports from qualified independent testing agency indicating results of impact attenuation testing.
- D. Manufacturer's Project References:
 - 1. Submit list of successfully completed projects.
 - 2. Include project name and location, name of owner, and type and quantity of bonded rubber playground safety surfacing furnished.
- E. Installer's Project References:
 - 1. Submit list of successfully completed projects.
 - 2. Include project name and location, name of owner, and type and quantity of bonded rubber playground safety surfacing installed.
- F. Maintenance and Cleaning Instructions: Submit manufacturer's maintenance and cleaning instructions.
- G. Warranty: Submit manufacturer's warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
 - 1. Continuously engaged in manufacturing of bonded rubber playground safety surfacing of similar type to that specified.
 - 2. Furnished a minimum of 10,000 square feet of bonded rubber playground safety surfacing of similar type to that specified within the past 6 months.
- B. Installer's Qualifications:
 - 1. Successful experience in installation of bonded rubber playground safety surfacing of similar type to that specified, with a minimum of 10 projects completed within last 6 months.
 - 2. Employ persons trained for installation of bonded rubber playground safety surfacing of similar type to that specified.
 - 3. Approved by manufacturer.
 - 4. Covered by Workers Compensation, Automotive and General Liability insurance.

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: Store materials in a dry area at a minimum temperature of 40 degrees F.

- C. Handling: Protect materials during handling and installation to prevent damage or contamination.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Material Temperature: Ensure material temperature is a minimum of 40 degrees F at time of installation.
- B. Air Temperature: Ensure air temperature is a minimum of 40 degrees F for a minimum of 24 hours before, during, and a minimum of 72 hours after installation.
- C. Precipitation: Ensure no prospect of precipitation during and a minimum of 72 hours after installation.

1.8 LIMITATIONS

- A. The following chemicals may cause damage to the bonded rubber playground safety surfacing and should be avoided: disinfectants, concentrated chlorine bleach, gasoline, diesel fuel, hydraulic and lubricating oils, acids and organic solvents.
- B. Dissolved minerals and other chemicals such as hydrochlorides from water play areas, pool surrounds and similar applications may cause surface discoloration.
- C. An amber shading may be noticeable when using standard binding agent.
- D. Areas in excess of 1000 square feet or composed of adjacent colors may contain a cold joint or seam due to the nature of the installation process. Large areas or adjacent colors require the material to be installed on separate days.

1.9 WARRANTY

- A. A three (3) year warranty from the date of completion of installation shall be provided against defects in materials and workmanship.

II. PRODUCT

2.1 MANUFACTURER

- A. Global Surfacing Inc.
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2.2 BONDED RUBBER PLAYGROUND SAFETY SURFACING

- A. Global Surfacing Bonded rubber Playground Safety Surfacing
1. Description: Single-density, resilient, seamless, bonded rubber, playground safety surfacing.
 2. Compliance: Meet or exceed CPSC guidelines for impact attenuation.
 3. Material: Mixture of colored SBR rubber buffings and 100 percent solids, aromatic, MDI polyurethane binding agent.
 4. Binder to Rubber Ratio: Approximately 20 pounds of binder to 100 pounds of rubber.
 5. Total Thickness: From 1.5 inches to 5.5 inches as determined by designated fall height of playground equipment.
 6. Colors: Standard solid colors include Red, Brown or Green. Standard color combinations include Red/Green/Yellow, Red/Brown/Yellow or Red/Brown. Standard solid colors and color combinations were chosen based on popularity, UV stability, and cost.
- B. Test Results:
1. Impact Attenuation, ASTM F 1292:
 - a. Gmax: Less than 200.
 - b. Head Injury Criteria (HIC): Less than 1,000.

III. EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive bonded rubber playground safety surfacing. Ensure all applicable site work, including subsurface preparation, fencing, playground equipment installation and all other relevant work, has been completed. Notify owner if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 PREPARATION

- A. Prepare subsurface in accordance with manufacturer's instructions to ensure proper support and drainage for bonded rubber playground safety surfacing. Finished elevations of subsurface shall be as indicated on the Drawings. Finished elevations of adjacent areas/borders/edging shall be as indicated on the Drawings. Subsurface shall be installed in a true, even plane and sloped to drain unless otherwise indicated on the Drawings.
- B. Aggregate Subsurface: Aggregate subsurface shall be as specified in Section 02.
- C. Concrete Subsurface:
 - 1. Concrete subsurface shall be as specified in Section 02.
 - 2. Apply light broom finish.
 - 3. Ensure concrete is sound with no cracks or loose material.
 - 4. Ensure concrete is a minimum of 28 days old.
 - 5. Test concrete for moisture in accordance with manufacturer's instructions to ensure it has sufficiently cured and is dry.
 - 6. Power wash existing concrete in accordance with manufacturer's instructions.
- D. Asphalt Subsurface:
 - 1. Asphalt subsurface shall be as specified in Section 02
 - 2. Ensure asphalt is sound with no cracks or loose material.
 - 3. Ensure asphalt is a minimum of 28 days old.
 - 4. Test asphalt for moisture in accordance with manufacturer's instructions to ensure it has sufficiently cured and is dry.
 - 5. Power wash existing asphalt in accordance with manufacturer's instructions.
- E. Variations in Elevation: Repair variations in elevation of completed subsurface greater than plus or minus 1/4 inch over 10 feet in any direction.

3.3 INSTALLATION

- A. Install bonded rubber playground safety surfacing in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Ensure prepared subsurface is dry, clean and free of any foreign or loose material.
- C. Install edges in accordance with manufacturer's instructions and as indicated on the Drawings.

D. Install cold seams as indicated on the Drawings.

3.4 PROTECTION

A. Owner shall not allow foot traffic on bonded rubber playground safety surfacing until a minimum of 80 percent cure is obtained. (Estimated time to obtain 80 percent cure will range from 6 to 72 hours depending on temperature and humidity.)

B. Owner shall protect completed bonded rubber playground safety surfacing from damage during installation and cure time.

C. Owner shall protect completed bonded rubber playground safety surfacing from damage from subsequent construction activity.

3.5 MAINTENANCE AND CLEANING

A. Owner should maintain and clean bonded rubber playground safety surfacing in accordance with manufacturer's instructions.