

SPECIFICATIONS FOR BONDED RUBBER SAFETY SURFACING

PART 1: GENERAL

1.1 DESCRIPTION

All work included under this Section provides all necessary materials, labor, tools, equipment and supervision required for the work related to the installation of the poured-in-place rubber safety surfacing.

- A. All bonded rubber safety surfacing shall be installed in strict accordance with the manufacturer's technical specifications and as called for on Drawings.

1.2 SUBMITTALS

- A. Manufacturer's technical specifications and color samples are required for this portion of the work "or equals" for review and approval by the Designated Representative prior to installation.
- B. Manufacturer's ASTM-1292 testing to be submitted with testing to be within last 12 months

1.3 GENERAL

- 1. Work Included**

This work includes furnishing and installing the bonded rubber safety surface.
- 2. Description of System and General Conditions**

The rubber safety surfacing materials shall be poured in place and troweled to provide for a resilient, seamless rubber surface installed over the specified base. The surfacing manufacturer shall be responsible for all the labor, materials, tools,

equipment and applicable taxes to perform all work and services for the installation of the surface. All work and handling of materials shall conform to requirements of OSHA.

3. Quality Assurance (from Manufacturer)

Test Results – (Submittal required prior to Installation)

- Impact Attenuation – ASTM F1292 within 12 months

Impact attenuation test results shall be provided with submittal to the Designated Representative and Contractor.

These test results shall be certified and submitted on the letterhead of the approved independent testing lab. Impact attenuation test results shall meet or exceed Consumer Product Safety Commission Guidelines for impact attenuation (G-max and Head Injury Criteria “H.I.C”). Both test results must be administered and evaluated under the same test and these results must be shown for three drops at each required temperature: 25, 72, 120; yield less than 200 G’s and less than 1,000 H.I.C. The impact site must be performed on the “worst case scenario” area of the sample tested. Testing laboratory must be certified to meet calibration program requirements of MIL-STD-45662A. **TESTING WILL BE ON CONCRETE.**

-Flammability of Topping Course- ASTM D2859: Product shall pass flammability.

-Tensile Strength – ASTM D412-87 and Tear Resistance – ASTM D624-86: This test indicates a product’s ability to stretch, and how far it will stretch before it breaks. Test results must be a minimum of tensile strength = 60 PSI and % elongation @ break = 40 (140% of original size).

To assure compliance with the above, installation shall be provided by the MANUFACTURER or their authorized agent who SHALL BE THE INSTALLER.

Contractor Pre-Qualifications

- A list of twenty (20) surfacing projects completed with a similar product within the last eight (8) years. List shall include names of project representatives and respective telephone numbers. This list shall also contain projects, which require the same level of difficulty, size of project, type of project, e.g. color transitions and special graphics. These twenty (20) projects shall have been contracted and installed by the company that is to perform the installation work.
- If stone is used as a base, a list of ten (10) projects where the proposed rubber surface has been installed over a compacted stone base. This list shall include names of project representatives and respective telephone numbers

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Manufacturers Assurance

The Contractor must submit Material Safety Data sheets (MSDS) and Product Data Sheets on all materials, during the submittal process.

4. Surface Thickness

Thickness shall be no less than 1.5” in any area and shall conform to ASTM-1292 guidelines for thickness under and around equipment.

5. Material

Bonded material shall be of +4 SBR buffing that is colored via computer controlled hopper and paint feed. The material will be dried on a conveyor at 550 degrees F.

Binder

Binder shall be one part polyurethane comprised of 100% solids. No polyoils or extenders will be permitted. Binder will be from the following approved manufactures. Anyone wishing to use a binder not on the following list must submit a 5 gallon pail for analysis at the vendors expense. The approved binders are as follows:

1. Rosehill 1102/1118
2. Conica 315/316
3. MEI Flexithane 708/718
4. Futura series

Mix Ratios

**FOR BONDED
RUBBER THE MIX RATIO IS 16% WHICH IS 8 POUNDS
OF BINDER PER 50 POUNDS OF COLORED BUFFINGS**

Mixer

Paddle type mortar mixers such as the Stone 755PM for example will be the only type of mixer allowed. Material shall be mixed at a uniform rate for a minimum of 90 seconds.

6.

Submittals

Any alternate product must be submitted to the City Representative for approval a minimum of 10 days prior to bid date. Submittal packages shall include but not be limited to:

1. reference list per all of the requirements of contractor pre-qualifications.
2. two samples measuring a minimum of 6"x6" 1.5" thick
3. a written guarantee from the manufacturer of the proposed product against all defects in material and/or workmanship
4. all required test results as listed in this spec from an approved independent testing laboratory.
5. all MSDS and Product Data Sheets

7.

Warranty

The poured in place rubber safety surface shall be warranted by the manufacturer for any defects in material and or labor for a period of no less than 3 years. The written and dated warranty (date shall read the date of final review and acceptance by the city) must be submitted by the surface manufacturer prior to

payment. A preliminary copy of the warranty shall be submitted as part of the submittal process.

8. Approved Manufacturers/Installers

1. Sport Surface Specialties
574 Main St Suite 202
East Aurora, NY 14052
1-877-438-3872

Any product or surface manufacturer, which has not met the prior approval requirements of this section, prior to the bid date, will not be considered. Should the contractor wish to use a Manufacturer other than those listed above they shall submit appropriate documentation that the proposed manufacturer meets or exceeds the product requirements of this entire specification section. **All manufacturers listed above will be required to follow this spec in its entirety.**