



Architects Product Specifications for...

URE-TECH SURFACES

RAINBOW TURF: TREE RINGS/ PERMANENT LANDSCAPING

DESIGN CRITERIA:

- a.) *The Surface System shall have been marketed by name within the United States for at least ten (10) years. Canada for minimum five (5) years.*
- b.) *The installation of the Surfacing specified herein and indicated on the Drawings shall be performed by an organization who can furnish supporting evidence of rubberized surfacing installation experience, a company regularly engaged in this type of work on a full time basis for a period of not less than 10 years.*
- c.) *The installation of the Surfacing must be executed by Poured in Place applicators who are factory trained, authorized Rainbow Turf installation contractors.*
- d.) *The installation of the Surface must be validated by a factory authorized representative.*

SUBMITTALS:

- a.) *Samples:*
 - 1.) *Submit Samples of the following for approval by the Engineer.*
 - a.) *12 inch x 12 inch samples of the safety surface, 2" depth of material compressed.*

Product Testing: To include...

- a.) **Permeability:**
The finished surface shall be tested in accordance with ASTM 1551 And Permeable DIN 18-035 to ensure proper permeability of water to root ball.
- b.) **Slip Resistance:** *Wet dynamic reading shall not be less than 40 when tested in accordance with ASTM E 303, using British Portable Skid Resistance Tester.*

- c.) **Flammability:** *Minimum Critical radiant flux of 0.22 Watts/CM² when tested in accordance with ASTM E 648.*
- 1) *Particulate Rubber Particles must successfully pass ASTM standard CFR 1630 for flammability of carpet and rugs.*

SITE CONDITIONS:

- a.) *Manufacturer's current installation methodologies and procedures must be used and followed on the Project.*
- b.) *Do not proceed with work during inclement weather. Comply with manufacturer's recommendations for application and curing under specific climatic conditions.*
- e.) *Conditions of substrates with respect to structural performance shall be evaluated and approved by the applicator prior to applying the surfacing.*
- f.) *At the time of application ambient air temperature shall be a minimum of 10 Celsius until installation is complete and rubber is fully cured.*
- g.) *Adjacent Material and the Surfacing shall be protected by the Customer during the installation process: while curing and while Unattended: from weather and other site related damages.*

SITE PREPARATION:

- a.) *A stable Sub-Straight is required along with use of Geo-Textile membrane fabric for weed-blocking and aiding in percolation.*
- b.) *When preparing a new tree pit for a Rainbow Turf installation the root ball must be settled into pit and earth must be allowed to settle around root ball. Recommended compaction of earth, 4 inch layers with soaking of water to achieve maximum compaction, All vegetation, wood mulch, or any other items that may result in composting causing voids in the earth must be removed*
- c.) *When preparing final grade of earth allow a maximum of 50mm depth for Rainbow turf rubber mulch, earth must be compacted and graded level to prevent humping of the Rainbow Turf rubber material.*
- d.) *Tree rings that do not have any borders where rubber is to be terminated trench 4 inches deep, install rubber and terminate into trench cover over rubber when cured to prevent any vandalism or lifting of edges.*

e.) *If boarders are required for Rainbow Rubber mulch, stone, brick or cement are recommended, cement must cure 30 days prior to bonding rubber. Aluminum or steel edging must provide a mechanical rough surface. Will not bond to plastic
If bonded to Asphalt with the expansion and contraction of both materials cracking of asphalt will occur along where both are bonded together this method is not recommended.*

MATERIALS:

Primer: *Single component moisture cured Stockmeier Stobi elast S 136.00 polyurethane primer.*

Binder: *An elastic polyurethane pre-polymer with minimal odor, excellent weathering and binding characteristics. The use of Stockmeier Stobi elast S 136.00 Urethane is specific to and required for this project. Supplier must receive written authorization prior to installing the product which verifies use supply of urethane specified for this project. No as equal urethane substitutions are permitted. Stockmeier Stobi elast S 136.00 is supplied by Ure-Tech Surfaces Inc. 1-866-211-0191*

Rubber Granule: *Size ranges from 1/4" to 3/8" per granule, is free from cotton /polyester cord strand, and 99.9% wire free clean recycled waste stream rubber.*

Rubber Buffing: *Rainbow Turf colored rubber buffing is specified. Rainbow Turf consists of 100% recycled tire-buffing product which may be colored by way and use of iron oxide pigments. Rainbow Turf rubber buffing material is sole sourced by Ure-Tech Surfaces Inc. 1-866-211-0191. No as equal raw material substitutions are accepted.*

The body of loose-fill rubber mulch buffing consists of rubber particles ranging in size from 3/8" to 1/2" that meets or exceeds the following criteria:

- *Rubber Buffing Material is Non-Toxic*
- *Rubber Buffing Material is Anti-Fungal*
- *Rubber Buffing Material is Non-Absorbent*

- *Rubber Buffing to Avert Nesting of Insects*
- *Buffing must be a Long-Strand Rubber Fiber Particle*
- *Rubber Buffing Material Passes Long-Strand Water Permeability per USTC Test Procedure*
- *Rubber Buffing Pass Accelerated U.V. Colored Buffing Test Rating a 'No Change when exposed to 420 AFU's – Testing Methodology AATCC 16E for loose-particle Rubber Buffing*
- *Buffing Material Must Pass Accelerated Wear Test Rating when bonded by Urethane showing 'No Change' of 20,000 foot counts – Testing Methodology CRI TM-101 for rubber buffing bounded together as a solid surface for rubber walk*
- *Long-Strand Rubber Buffing Material Passes ASTM E 303 Test for Skid Resistance*
- *Long-Strand Rubber Buffing Material Passes ASTM D412-98a Test for Tensile & Elongation Properties*
- *Long-Strand Rubber Buffing Material Passes ASTM C501-84 (96) Test for Abrasive Wear*

WARRANTY:

- Provide a written warranty stating that work executed under this Section will be free from defects of materials and workmanship for a period of **Five (5)** years from date of Substantial Completion, and that material breakdown and unraveling will be remedied on written notice at no additional cost to the Owner.*
- The Warranty shall be supplied in writing, and honored by Contractor. Contractor shall Warranty removal and replacement of materials as required repairing or replacing PIP surfacing.*
- Customer testimonials which can document ten (10) years of tenured experience are required and must be submitted inclusive of the bid package.*



Setting the Standards in Our Industry
 Providing Beautiful Solutions to Environmental Pollution

URE-TECH SURFACES