# World Signature Surfacing of America, Inc.

## RUBBERWAY® Flexible Sidewalks PRODUCT FACT SHEET

RUBBERWAY® recycled rubber sidewalk and tree well systems provide a superior, cost-effective and LEED accredited alternative to concrete sidewalks and pathways and preformed rubber pavers. City and municipal works departments and councils are constantly faced with the public safety concerns and financial burdens posed by sidewalks damaged by tree roots, freeze-thaw, and vehicular traffic. RUBBERWAY®' sidewalk systems accommodate tree root growth, frost heave and vehicles with minimal damage.

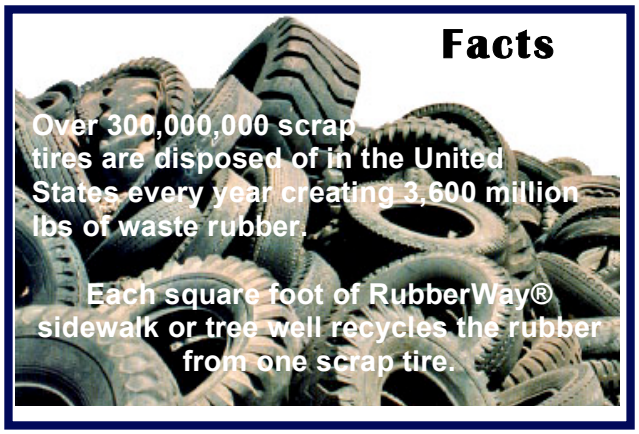
**Currently installed - ~100,000 square feet**
**Average cost/sq ft. material……. $8.00**
**Size limitations……..none**
**Installation method……..poured to form**

### Cost Benefit Analysis

- RUBBERWAY® sidewalks and tree wells are virtually unbreakable.
- RUBBERWAY® sidewalks and tree wells greatly reduce injuries from tripping and falling accidents.
- Unlike concrete, rubber and asphalt pavers, RUBBERWAY® sidewalks and tree wells are seamless and so provide little or no opportunity for tripping.
- WSSA offers site inspection and tracking on request.
- RUBBERWAY® sidewalks and tree wells can be repaired on-site if vandalized or otherwise damaged.
- RUBBERWAY® sidewalks and tree wells can be "re-topped" replacing just the EPDM layer thus further reducing the eventual renewal costs.
- RUBBERWAY® products don't yellow or darken with age and last at least 7 or 8 years before needing re-topping.

### **Benefits of** RUBBERWAY® Sidewalks and Tree Wells.

- Helps to preserve the urban forest by reducing the necessity for tree removal.
- Seamless construction eliminates cross path seams and raised edges to greatly reduce tripping and falling
- Poured-in-Place installation allows easy shaping around obstacles and follows curves in the pathway.
- Virtually unlimited texture and color combinations to suit the application.
- RUBBERWAY® products are porous, allowing moisture penetration to the substrate
- Seamless construction eliminates weed growth between paving panels typical of rubber and concrete systems.
- Variable densities allow a range of resilience to suit the type of traffic anticipated.
- Safe, non-toxic, sound absorbing, flame resistant and uses regionally obtained recycled rubber materials.
- Environmentally friendly using recycled rubber from tires, shoe soles and industrial rubber.
- At the end of its life it can itself be recycled and used again to create new sidewalks and tree wells.

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## COMPETITIVE ANALYSIS

| BENEFITS | RUBBERWAY® | RUBBERSIDEWALKS PAVERS | CONCRETE | ASPHALT |
|---|---|---|---|---|
| Estimated Life Cycle | 8 yrs | 3yrs | 2-5 yrs | 2 yrs |
| Installed Material Cost | $14 sq ft | $16.00 sq ft. | $12.00 sq ft. | $5-8.00 sq ft. |
| Crew Needed | 3 man crew | 2 man crew | 4 man crew | 4 man crew |
| Completion Time | 2000 sq ft /day | 500 sq ft/day | 2000 sq ft /day | 2000 sq ft /day |
| Recycled Material Content | 100% | 100% | Low | Low |
| ADA Compliance | Very low vibration | Low vibration | High vibration | High vibration |
| Size | Unlimited | 2'x2.5'x1.875" | unlimited | unlimited |
| Weight | 9 lbs/sq ft. | 10.8 lbs/sq ft. | 93.75 lbs/sq ft. | 24.5 lbs/sq ft. |
| Appearance Changes | None | Darkens over time | Cracking, staining | Chipping, holes |
| Mass Changes | None | Some settling | Lifting, breaking | Deterioration |
| Trip Hazard | None | High at lifted seams | High at seams, cracks | Medium through breaking |
| Maintainability | Very low | moderate | low | moderate |
| Walking Comfort | Highest | Moderate | Low | Low |
| Porosity | Highest | Only at seams | None( 0"/hr) | Low (.2"/hr) |
| Follow Curves, obstacles | Yes | No | Yes | yes |
| Re-Topping | Easy | No | Difficult | Moderate |
| Patch Repairing | Almost invisible | Difficult (Variable density) | Poor | poor |
| Weed Growth | None | In seams | In seams | Through surface cracks |
| Coefficient of Friction (non-skid) | .76 dry/.56 wet | .90 dry/.65 wet | .60 dry/.50 wet | .50 dry/.25 wet |
| LEED Qualified | Highest | High | No | no |
| Environmental Impact | 100% recycled rubber, low heat island, low water runoff, low energy need. | 100% recycled rubber, low heat island, high energy need. | Lime, heat island effect high, high water run-off, high energy need. | Heat island effect high, high water run-off, high energy need. |

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