



MIAMIBEACH

COMMITTEE MEMORANDUM

TO: Land Use and Development Committee

FROM: Jimmy L. Morales, City Manager

DATE: July 22, 2013

SUBJECT: **DISCUSSION PERTAINING TO "SMARTER MATERIALS FOR NEXT GENERATION INFRASTRUCTURE," SUCH AS ELIMINATING THE DISPOSAL OF TIRES IN GLOBAL LANDFILLS AND INCINERATORS.**

On December 12, 2012 the City Commission referred this item to the Land Use and Development Committee to discuss "Smarter Materials for Next Generation Infrastructure".

BACKGROUND

"Smarter Materials for Next Generation Infrastructure" is the trademark for KB, Industries, Inc. (KBI). KBI manufactures products comprised of recycled tires including the product Flexi-Pave. Flexi-Pave is the brand name for a type of pour-in-place, rubber paving surface that is pervious to storm water. The rubber granulate used to create Flexi-Pave is developed from scrap tires that are recycled rather than disposed in landfills or incinerated.

Pour-in-place, rubber paving surface can be used in the construction of trail systems, parking lots, sidewalks, playgrounds, golf courses, and other similar facilities.

ANALYSIS

Porous pavement is an alternate solution to traditional paving surfaces. It can provide increased surface drainage and can reduce storm water run-off by allowing the movement of storm water through the surface. It can also improve water quality by allowing the layers beneath the permeable surface to filter pollutants. In addition, porous pavement that is manufactured using recyclable materials can reduce the amount of waste entering landfills and incinerators.

Any product used for this application would need to be vetted through the City's competitive bid process. Flexi-Pave is not the sole source provider of porous pavement containing recycled content. Administration has not conducted specific research comparing pour-in-place porous pavement surface manufacturers.

CONCLUSION

The above information is provided for discussion by members of the Land Use and Development Committee.

JLM/MT/ETC/JJF/RWS/ESW/MWK

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