

Marketable products from wastes

Rodex Technologies Inc., Canada, is offering new processes to obtain marketable products from wastes. A patented process has been developed to rapidly convert organic waste into a high-value feed supplement for the agricultural industry or into an organic fertilizer and soil amendment. The waste fermentation process employs thermophilic bacteria to efficiently and cost-effectively digest and transform organic waste. Some of the organic wastes that can be used are:

For animal feed supplements:

- Bakery wastes;
- Vegetable and fruit wastes;
- Food processing wastes;
- Dairy and whey wastes;
- Restaurant and catering wastes;
- Supermarket wastes; and
- Brewery and winery wastes.

For fertilizer supplements:

- Animal manure;
- Packing plant and slaughter house wastes; and
- Effluent treatment plant sludges.

The tyre recovery technology offered by Rodex is an integrated approach that involves separating tyres into their component parts, modifying and recovering the material and re-integrating the output into parts manufacturing. The flexible system separates the crumb rubber, steel and fibre, all of which can be reused or sold in the market. A proprietary technology modifies granulated rubber into a new higher value material, that is partially depolymerized rubber, for use in place of virgin rubber. The environmentally friendly unit uses specially designed interior walls to buffer the noise and no emissions are released into the atmosphere.

Rodex has also developed technology to fabricate rubber casings for maintenance holes and catch basins from recycled tyres. The rubber frame is precast to a steel reinforced concrete ring and the entire assembly is mounted directly on the maintenance hole structure. Each frame utilizes rubber from about seven used tyres. It is a longer lasting alternative to the conventional concrete frame and also helps reduce stockpiling of used tyres. The lifespan of the underlying masonry structure is prolonged as is the asphalt surface surrounding the maintenance hole. *Contact: Rodex Technologies Inc., 1101C, Falaise Road, Nepean, Ontario K2E 6P9, Canada. Tel: +1 (613) 2281 166; Fax: +1 (613) 2288 698; E-mail: rodex@magi.com; Website: <http://www.magi.com/~rodex/>*