

Anwendungsbericht/User Application Report

Produkt/Product:
penergetic k

Fachberater/Consultant:
Solutions Penergetic
Quebec/Canada

Anwender/User:
City of Sherbrooke
Canada

Datum/Date:
2016

Application on compost in Canada

The City of Sherbrooke (population 250,000) decided to initiate a city-wide composting operation. The problem was that, after two years of collecting leaves, and other raw materials from households, their municipal works yard was full of compostable material which was not breaking down / decomposing properly (and they were running out of storage room!). The City of Sherbrooke was seeking a solution: "to compost the collected material as fast as possible to create space for new raw materials to arrive."

Situation

A test was conducted with 2,000 tonnes of leaves that had been stored for one year. The compacted leaf material was put in windrow, half of which penergetic k was applied on, at a rate of 50 grams per m³. The windrows were mixed with a Bacchus windrower and turned again after 15 days.



Result

The penergetic k treated compacted leaves composted successfully in 21 days! Besides noticing “no odour from penergetic-treated compost”, the City has undertaken no further technical analysis as for them the most important thing was increasing the “through put” of compostable material. This, penergetic k did very successfully and, as a result, now all material to be composted gets treated with penergetic k. The finished compost is used for the City’s own purposes – for flower pots, urban landscaping, etc.

Subsequently, they have observed that: provided the ambient air temperature was suitable when penergetic k was added, the composting process got underway quickly. Furthermore, once the process was started, even if the exterior of the pile became much colder, the composting process continued inside the windrows – as the temperature there remains higher.

Temperature after one week



penergetic 60°C



Control 40°C



Compostable material in the works yard



Same material, 21 days after composted with penergetic k

