



THE PRINCIPLE OF ORGANIC WASTE TREATMENT WITH GORE® COVER



Take just as much favourably priced nature as possible and as much intelligent technology as necessary. Or more precisely: GORE® Cover.

It consists essentially of three components: aeration, control, and the membrane cover. Brought together in a perfect balance, the three components interact to produce a unique, economical and reliable composting system. In order to provide the essential basic requirements for the aerobic

micro-organisms, medium pressure aerators are connected to in-floor aeration ducts. The bigger the throughput of the plant, the more worthwhile the investment in in-floor aeration channels, allowing vehicular access and saving on staffing costs.

The aerators are controlled by means of oxygen, for which the necessary data, as well as temperature, is obtained directly from the main body of the heap using stainless steel probes. The data is fed into the com-

puter and stored there, documenting the course of the operation. Radio-remote monitoring of the controlled composting process is possible.

The material is first mechanically prepared and homogenised before being laid on the aeration channels using wheel loaders. The probes are then sunk into the material to be composted and the GORE® Cover is immediately pulled over the body of the heap. Various handling aids are available to make this action easy. All that is required is to fill the fire hose at the edge of the cover with water to fix it in position and within a few minutes an in-vessel system is functioning.

Without the cost of any further technical installations like bio-filters and without producing any conspicuous odours or

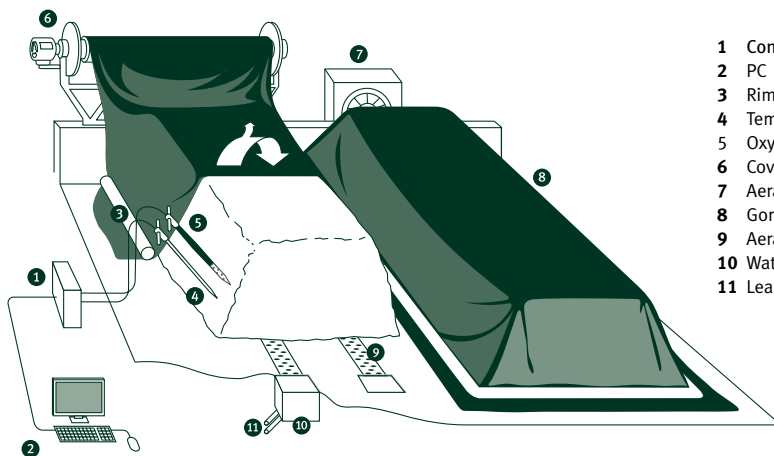
microorganisms, nature now sets to work. It is inexpensive and it is in perfect tune ecologically. Four weeks later the heap can be opened up to find that its contents have thoroughly decomposed.

All that has to be done is to remove the measuring probes, roll back the cover onto the winding gear by remote radio control, and place the material – e.g. by a front-end loader – on the maturation field, cover it, position the probes and continue biodegradation.

After one further turning of the heap high quality compost can be produced in a total of just 8 weeks.

With the right equipment and our expertise you can save yourself the bother of watering, turning – and trouble with the neighbours.

COMPOSTING WITH GORE® COVER



- 1 Control system
- 2 PC
- 3 Rim weight
- 4 Temperature sensor
- 5 Oxygen sensor
- 6 Cover handling device
- 7 Aeration fan
- 8 Gore® Cover
- 9 Aeration and leachate system
- 10 Water trap
- 11 Leachate collection

Intelligent technology allows rapid organic decomposition with integrated protection against weather, emissions and odour. A plant of this kind can be installed anywhere in the world within a short time.



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COMPOSTING FOOD AND YARD WASTE WITH GORE® COVER

Composting with GORE® Cover means using the latest technology available, because it brings together various technologies that have hitherto appeared incompatible. Composting with GORE® Cover is almost as economical as composting with open windrows and yet it is as safe to manage as in-vessel systems using highly technological structures and complies equally with the requirements of most licensing authorities. This is precisely what makes it ideal for treating Source Separated Organics and yard waste where a first-class final product is required. Even the authorising bodies generally recognised as the strictest in Europe and North America, such as Germany (TA Luft), UK (ABP-Regulation) and California have accepted GORE® Cover as best available encapsulated



technology. As a result there are more than 150 plants worldwide with throughputs of 6,500 t/a up to 600,000 t/a operating with our technology, and licensed to operate in accordance with Odour and Emission Control Laws. The combination of a membrane cover and controlled aeration allows a reliable composting process. Pressurised aeration ensures a sufficient supply of oxygen and

proper temperature management, while at the same time minimising odour and microbial emissions. Ultimately that leads to trouble-free operation of the plant even where the composition of the input varies – and in all climatic conditions. Ideal composting conditions with minimum energy consumption lead to reduced composting times, saving the operator space, effort and considerable

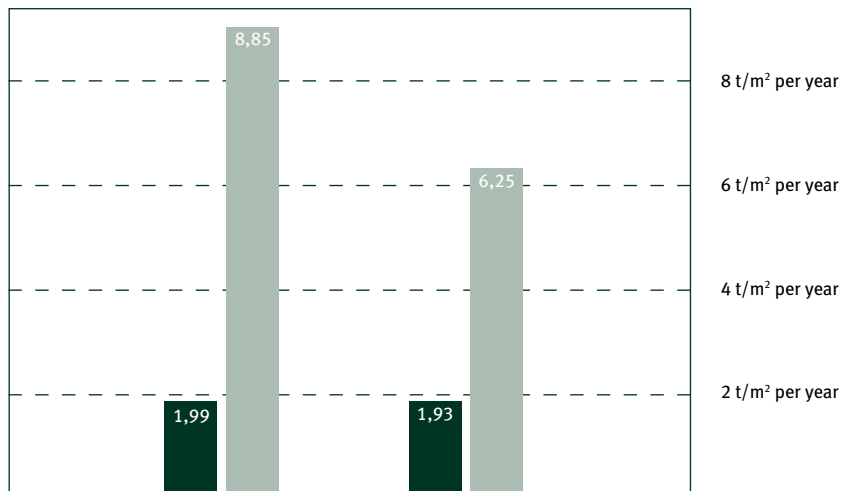
cost. In this way our technology offers significant increases in throughput for many plants, while using the same space.

Using GORE® Cover to compost Source Separated Organics offers compliance with licensing requirements, operating safety, and an impossible-to-beat cost/performance ratio, all in one!

INCREASES IN THROUGHPUT BY GORE® COVER

Whether it is Source Separated Organics or yard waste – composting with the GORE® Cover produces ideal composting conditions. It all leads to increased throughput per composting footprint, yet requires a relatively small investment.

Throughput of open windrow composting
 Throughput after GORE® Cover



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