



**Growing Greener Generation**

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Test performed for: **Fortis X (Pty) Ltd**  
Testing for: **Compostability field test**  
Test Date: **05-06-2019**  
Product: **Fortis X Biopolymer Bottles and cutlery**  
Time taken: **Less than 3 weeks**

## **Compostable Product**

### **Corona Organic Waste Processing Operation (COWPO)**

We make use of the CMC (controlled microbial composting) method to produce compost. We were contacted by Fortisx to run a trial on their compostable products and the results were the following:

#### **6 June 2019 Day 1**

Products were added to a 3 day old windrow with a temperature of 70 degrees and a moisture content of 47%.

#### **Day 2**

Product were inspected and we found that the bottle had, due to the heat, been reduced by at least 4 times its original size. The spoons however retained their size but, but started to change shape. See image below.

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Product were placed back into the windrow and operation went on as normal. Windrow was maintained at temperatures between 65 and 70 degrees with a moisture content of 45 – 48%.

#### **Day 5**

Upon inspection it was evident that the product became hard and brittle and therefore started to break down into pieces.



Product was added to the windrows again.

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## Day 8

During today's inspection the product crumbled when handled as can be seen on the image below.



The inspection on day 8 revealed that the product disintegrated and we could therefore not differentiate between the product and the rest of the windrow's material. The product was also too small to detect due to our process of turning the windrow with a self-propelled turner.

### CONCLUSION:

The product can be successfully composted within a 6 week period in a commercial compost facility which makes use of the CMC process.

Yours faithfully

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