



rainbow
professional
shaping your environment

RAINBOW BIO II

Protecting
a whole lot
more than
our trees

We are all aware of the vital role tree guards play in protecting millions of newly planted saplings from deer and rabbit browsing, and the effects of herbicide application. However, the potential environmental impact of discarded plastic guards in our woodlands and forest habitats has inspired responsible companies such as Rainbow Professional to develop a new generation of bio spiral guard – the Rainbow Bio II.

The innovative and natural
choice in tree protection



Committed to protecting the countryside

As one of the UK's leading manufacturers and suppliers to the forestry, horticultural and landscaping markets, we are committed to playing our part in helping take harmful plastics out of the countryside.

We have now introduced a product that is manufactured solely from biodegradable polymers and additives. The materials used are certified as being 100% bio-based and compostable.

It functions exactly like any other tree guard, but without harming nature, and here's why.



Raw materials

We use plants (not oil!) to make our plastics, using only 100% biodegradable materials. The materials used are certified as being 100% biobased and compostable.



Toxicity

Unlike oil-based plastics, the Rainbow Bio II is completely non-toxic when degraded. In fact, when degraded, only water, CO₂ and biomass remains.



Carbon footprint

Our biomaterials have a carbon footprint of up to 5x lower than oil-based plastics.



No competition with food sources

By only using post-industrial waste and off-cuts from factories manufacturing products from biopolymers, this means that the 'plants' used in our spirals aren't competing with other food sources and therefore help contribute to a more productive biopolymer value chain.



Growing number of additional end-of-life options:

After its useful life, the product can be recycled, composted to create healthy soil nutrients, or used for energy generation. Recent research has shown various applications made from the same base material degrade faster than an orange peel in a municipal composter.

This is only the beginning

Our journey in search of the best performing products with the least impact has no finish line. We're proud that we've been using 100% recycled plastics in our products for 20 years already but this alone wasn't enough for us – we wanted to be the first to move away from fossil fuels to embrace 100% plant-based alternatives that don't contaminate the soil or leave toxic residues behind when degraded.

While large-scale tree planting is essential for the continued health of our planet, our commitment to protecting those trees in their early years is to not only provide a product made of a recycled bio-based material, but also to ensure that we continue to develop these products in line with the latest scientific research. At present, we believe that the materials used in our Rainbow Bio II are the most sustainable currently available.

Want to know more?

While exciting research and development continues, one fact remains: we have to protect our woodlands, forests and – ultimately – oceans, by moving away from fossil-fuel based plastics that contaminate our soil. Please help us tackle this challenge head-on by opting for greener, fit-for-purpose products such as the Rainbow Bio II that ensure healthy tree development, without negatively impacting our precious environment.



Call us on **01482 616861** or email **info@rainbow.eu.com** to discuss your requirements.