

Rapid & Reliable Restoration of Sphagnum using

Micropropagated Sphagnum as BeadaHumok™

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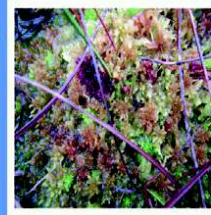
BeadaHumok™ The best product for restoration – grows well in all conditions



Dry conditions
After just 3½ months



Out-competes Molinia



Wet conditions

BeadaHumok™ in production



Over 1,200,000 supplied in 2017/18

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Any Species

- Mixed with plug: or
- Single species
- Many origins available
- UK, German, Irish, Swedish and many other

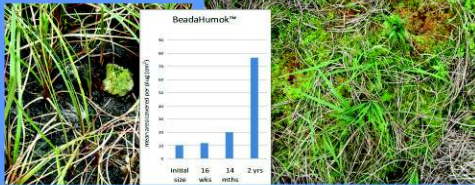


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Trials of BeadaHumok™ Upland & Lowland

Manchester Mosslands (lowland)

- BeadaHumok™ planted at high density produced a complete cover in approx. 2 years



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Peak District - Kinder Scout

Planted March 2015
2% cover
July 2015
5% cover
Mar 2016
10% cover
June 2018
97% cover

Photos courtesy Moors for the Future

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Cors Fochno / Borth at 5 months



BeadaHumok™ Grown 285%
Transplants Grown 37%

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Germany (Lowland)



- Planted spring
- Photos Autumn
- 6 months growing 1 Euro!

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West coast Ireland (Lowland)



- After just 5 months
- Grown from 4 cm to over 12 cm

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Yorkshire Dales



- One year after planting - Grown from 4 cm to 11 cm diameter

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Why Micropropagate Sphagnum

- For many species spores unavailable
- Micropropagation the only way to propagate large quantities.
- Tiny starting quantity
 - No donor site damage
- Clean material



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Micropropagation of Sphagnum

- Vegetative Micropropagation:**
 - Any species
 - Any Clone
 - Specific origin
 - Selected provenance clones
 - Local origin

Developed by Micropropagation Services over 12+ years

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Thanks to: Prof Simon Caporn (Manchester Metropolitan University, MMU), Anna Knightley (MMU), Richard Lindsay (University of East London) (Moors for the Future), Lancashire Wildlife Trust, Mite Valley (Natural resources Wales), Tim Thom (Yorkshire Peat Partnership), Jamie Hoff (BACS), Jan Koschling (Klausmann-Deilmann)

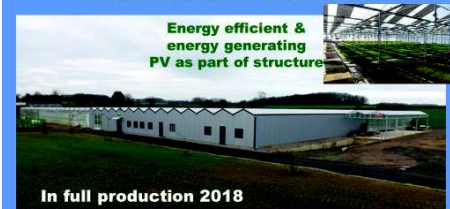
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BeadaHumok™

- ✓ No donor site damage
- ✓ No transfer of contaminants
- ✓ Clean - micropropagated in lab
- ✓ Weed free

New BeadaMoss® Production Facilities

Energy efficient & energy generating PV as part of structure



In full production 2018

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