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Part of: HEATHCOTE HOLDINGS

Gypsum

Gypsum is a mineral that contains calcium and sulphur. In agriculture, it's commonly used as a soil amendment to improve soil structure and provide essential nutrients to plants. The use of recycled Gypsum is becoming more widespread throughout the UK with the reduction of atmospheric deposits of Sulphur onto UK agricultural land. Sulphur has become one of the main limiting factors to crop yield, limiting the uptake and utilisation of Nitrogen.

Our recycled Gypsum Powder is produced from sister company, Countrystyle Recycling's bespoke state of the art recycling facility which recycles plasterboard back into powder to be re-used in the construction industry or diverted to be used in agriculture. Gypsum obtained from recycled plasterboard is a sustainable and eco-friendly option for agricultural applications. Recycling plasterboard not only reduces waste but also provides a valuable source of gypsum for soil improvement.

Benefits of gypsum:

- Improves soil structure by promoting the aggregation of soil particles - especially useful for clay soil - the calcium within gypsum displaces the magnesium found between the clay particles which helps the clay particles to flocculate, stick together and create natural aggregates.
- Improves soil conditioning and workability
- Improves water infiltration, aeration, and root penetration.
- Helps loosen compacted soils, making it easier for plant roots to grow.
- Source of Calcuim and Sulphur - Calcium is crucial for cell wall formation and overall plant structure, while sulphur is essential for various metabolic processes, including protein synthesis.

Dry Matter: 96.60%

Sizing: 0-5mm

Fines/Dust: Potenial for a small amount of dust

Colour: White

Odour: No odour

pH: 8.2

Accreditation: PAS109

Options: Delivered

*The above stats are based on typical analysis

FGS ORGANICS - GYPSUM

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Application:

At present, FGS does not provide a spreading service for the material itself as it requires a carrier to be spread with it such as cow muck or compost. However, if the farmer is able to provide another material, FGS can provide a solid spreading service.

Gypsum can be applied at 1t/ha under a low risk position statement and will not require a deployment. Gypsum is produced to PAS109 specification. Gypsum can be spread under deployment at a maximum of 6t/ha due to the sulphur content but this should be kept to a minimum. A deployment is limited to 50 hectares so the total amount of gypsum per deployment is 30 tonnes. Therefore, to maximise a deployment, another waste material needs to be added – paper sludge/crumb.

Recent analysis of gypsum - target application rate of 1t/ha::

	Kg's of nutrient per fresh t of by-product (kg/t)		Kg's of applied nutrient per hectare (kg/ha)		Kg's per hectare potentially available nutrients in year 1
Nitrogen	0.90 [as N]	⇨	<1 [as N]	⇨	<1 [as N]
Ammonium Nitrogen	0.02 [as N]	⇨	<1 [as N]	⇨	<1 [as RAN]
Phosphate	0.19 [as P_2O_5]	⇨	<1 [as P_2O_5]	⇨	<1 [as P_2O_5]
Potash	0.68 [as K_2O]	⇨	<1 [as K_2O]	⇨	<1 [as K_2O]
Sulphur	340.98 [as SO_3]	⇨	341 [as SO_3]	⇨	170.49 [as SO_3]
Magnesium	6.49 [as MgO]	⇨	6 [as MgO]	⇨	3.25 [as MgO]
Calcium	256.67 [as CaO]	⇨	257 [as CaO]	⇨	128.33 [as CaO]

Complementary products/services:

10mm & 20mm PAS100 compost, digestate, paper crumb, paper sludge, soil testing & compliance services

Please contact our office for any questions or any further information. Latest analysis and samples available upon request. Visit our website and join our mailing list to keep up-to-date on our latest news and products.

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