

# **SICO IRISH GOLD SEAWEED**

*Natural soil conditioner & fertiliser, granular,  
100% Ascophyllum Nodosum organic.*

**This is an organic certified product**

- Made in Ireland -

10/2018

## **1/ INTRODUCTION & GOLDEN ADVANTAGES : turning your crops into gold...**

\* **Alginate** is present in Seaweed Meal at levels of between 16% and 26%. Microbial population size has been found to increase dramatically in the presence of alginate gels. **This is why seaweed meals are also excellent compost activators:** the rate of composting is increased by the resulting increased microbial activity. It is well documented that soil health and associated plant growth is directly proportional to the presence or absence of soil microbes. **Alginates also absorb large volumes of water thus increasing the moisture in the soil.**

\* **Plant Hormones** also present in Seaweed Meal is a range of plant hormones and biochemical compounds. Cytokinin activity in the application of *Ascophyllum nodosum* extracts was shown to significantly increase the crude protein content in grass. Cytokinins are also known to stabilise leaf proteins and retard their degradation. In the same trial Cytokinins were shown to stabilise chlorophyll pigment in limes (Blunden, 1977). An aqueous seaweed extract applied to King Edward potatoes in parallel with a synthetic Cytokinin compound was shown to increase the potato yield significantly (Blunden et al, 1977). Betaines were shown to contribute to higher leaf chlorophyll content in French bean plant trials. (Blunden et al, 1996).

### \* **Major attributes**

- Suitable content of nitrogen & potassium, but lower in phosphorous than traditional manures and the typical NPK ratios in chemical fertilizers.
- Large amount of insoluble carbohydrates in *Ascophyllum nodosum* acts as soil conditioners (improves aeration & soil structure, especially in clay soils).
- Good moisture retention properties.
- Powdered *Ascophyllum nodosum* may be composted for 11-12 days and may be easily stored. This may be added to water and sprayed on steep slopes (which are difficult to compost) which may lose soil by water run-off. The composted seaweed sticks to the slopes and holds any soil in place; it also retains enough moisture to allow seeds to germinate.
- Composted *Ascophyllum nodosum* may be used after the construction of roads.

- Apply to fruit, vegetables and flower crops

#### • **Benefits :**

1. **Increased yield.**
  2. **Improved soil germination.**
  3. **Increased uptake of soil nutrients.**
  4. **Increased resistance to pests/insects.**
  5. **Resistance to frost.**
- 100% organic.

### **Different types of SICO IRISH GOLD SEAWEED :**



## **2/ PRODUCT DESCRIPTION & USAGE / CONTROL**

### \* Description

SICO IRISH GOLD SEAWEED is a natural plant strenghtener comprised of 100 % Ascophyllum Nodosum with nothing added. It is suitable for landscaping resurfacing, surfacing showing signs of stress due to nutrient deficiencies.

### \* Usage / Control

Landscaping, golf courses, pitches, turfs and fertigation applications.  
Refer to application date.

**3/ PRODUCT ANALYSIS : 100% pure wild Irish seaweed in a small granule.**

Constituent	* Standard average	* Typical analysis
Organic matter		77.81 %
Nitrogen (N)	0.6 - 2%	0.64 %
Phosphorus (P)	0.1 - 0.3%	0.15 %
Potassium (K)	2 - 3%	1.28 %
Magnesium	0.5 - 1%	0.76 %
Sulfur		1.25 %
Calcium	0.7 - 3%	0.71 %
Moisture (content)		12.00 %
Electrical conductivity (Hos/cm)		7.2 Hos/cm
pH level		6.8 %
Sodium chloride		0.73 %
Sodium (soluble)		0.31 %
Ratio (C:N)		2:1 ratio
Alginates	16 - 25%	
Proteins	5 - 10%	

\* General features

- Appearance : green / brown
- Odour : marine
- Specific gravity : 1.00
- Concentration : 100 %
- Particle sizes : There are 4 sizes 1) microns: 11500-1940 2) microns: 3350-850  
3) microns: 1940-850 4) microns: 850-250 (= most common size as can be used for all purposes, it is like sand.)

\* Typical composition

Composition per 100g:	(Average %)	Vitamins:	(Parts per billion - ppb)
Carbohydrate	56%	A Retinol	22
Dietary Fibre	51%	B1 Thiamine	11.5
Protein	5%	B2 Riboflavin	5
Fat	5%	B3 Niacin	5
Sugar	1%	B6 Pyridoxine	21.5
Alginic Acid	15-26%	B12 Cobalamin	6
Ash	18%	Vitamin C	9
Moisture	10-15%	Vitamin D	82
<b>Minerals and Elements:</b>		Vitamin E	150
Ca Calcium	2.60%	Vitamin K	2.79
P Phosphorus	0.30%	<b>Amino Acids:</b>	
Mg Magnesium	0.85%	Alanine	6.00%
N Nitrogen	1.50%	Arginine	8.50%
K Potassium	2.80%	Cystine	2.50%
Na Sodium	2%	Glycine	4.40%
S Sulphur	2.20%	Proline	7.80%
	(Parts per million - ppm)	Serine	11.70%
B Boron	96	Taurine	1.80%
Cr Chromium	0.7	Thiamine	5.50%
Co Cobalt	3	Tyrosine	3.00%
Cu Copper	3		
I Iodine	706		
Fe Iron	602		
Mn Manganese	02-Oct		
Mo Molybdenum	1.8		
Sn Selenium	0.5		
Zn Zinc	12		

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

#### **4/ SOME APPLICATION RATES**

Golf greens, sports turf	25kg bag per 500 square metres EVERY 2-3 Months depending on temperature and soil conditions
Lawns and grasses	5kg per 100 square metres, 50-75g per square metre (Apply Spring and Autumn) 2 Twice in Spring and 2 Twice in Autumn
Well-structured top soils	25 - 50kg per 500 square metres EVERY 3-4 Months depending on temperature and soil conditions
Poorly structured top soils	50 - 75kg per 500 square metres EVERY 6 weeks - 2 Months depending on tTemperature and soil conditions
Sub soil	75 - 150kg per 500 square metres
Compost	1 part soil conditioner to 50 parts compost during maturation period
Vegetables	100 - 150g per square metre
Flowers, shrubs	100 - 150g per square metre

#### **5/ PACKING**

- 25 kg bags x 40 = 1000 kg per pallet, 10 pallets = 10 MT/20ft
- 1000 kg jumbobags, 10 MT/20ft

#### **6/ SHELF LIFE**

- min. 3 years, if stored properly

#### **7/ DISCLAIMER**

Store out of direct sunlight in a cool frost free place, between 0 °C and 30 °C. This product is concentrated , you can add small amounts to other soil feeds or conditioner. Do not apply directly to plant. Add small amounts to soil. Seller guarantee shall be limited to the terms set out on the label and subject thereto. Results may vary. The buyer assumes the risk to persons arising from the use or handling of this product on that condition.