



Floranid®

The Slow Release Fertilizer for Turf



- Highly efficient slow release fertilizer for turf
- Constant and homogeneous growth



- Healthy green colour and better rooting
- Better resistance against wear



- Environmentally friendly



Floranid® – What is Floranid®



⇒ **Floranid®** is COMPO's slow release fertilizer brand for turf with a longevity of about 12 weeks

⇒ The slow release effect is based on Nitrogen from Isodur® (Isobutylidene Diurea = IBDU)



⇒ **Floranid®** also contains all vital macro and micro elements at the same ratio in each granule

⇒ **Floranid®** ensures excellent distribution with a small and even granular size of 0,7 – 2,8 mm (0,5 – 1,4 mm: **Floranid®** Eagle)

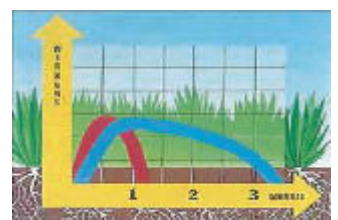
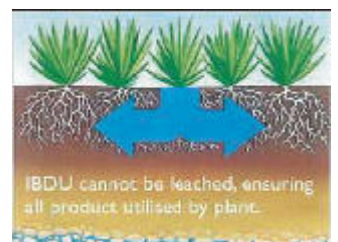
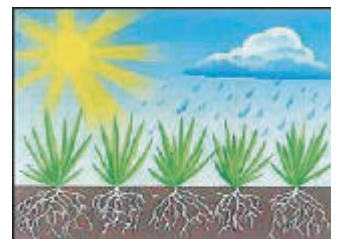
Isodur® – How does it work?

⇒ In the first phase, Isodur® is broken down via hydrolysis into its original constituents at a rate dependent on temperature and moisture. These factors also control plant growth, so the release rate is in line with the biological demand of the plant.

⇒ Efficient slow release effect even under difficult soil conditions, such as pure sand constructions.

⇒ In the second phase, the slow release Nitrogen is converted by micro-organism into Ammonium and Nitrate ready for plant uptake. Isodur® is 100% plant available after conversion.

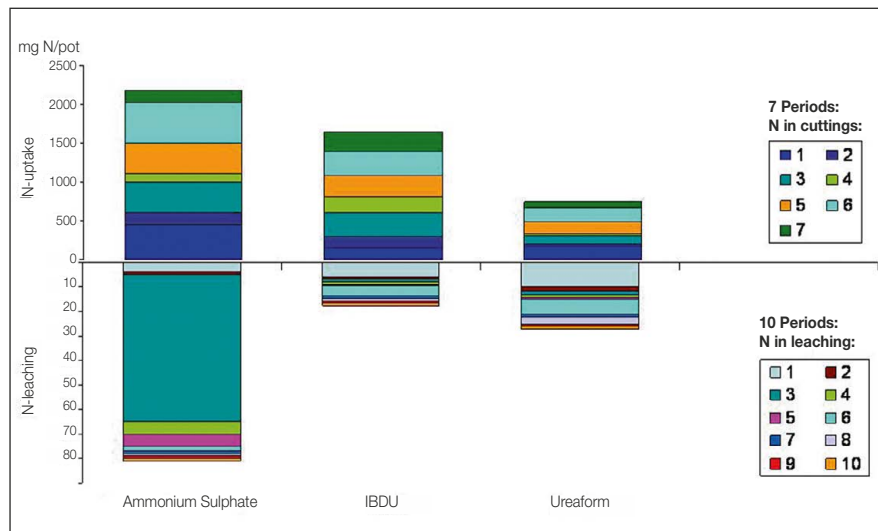
⇒ By using slow release Isodur® Nitrogen leaching is minimised and homogeneous turf growth is ensured over a period of up to 12 weeks.





Floranid® – High N-efficiency and superior Rooting

N-uptake and N-leaching of turf for different slow-release N-fertilizers (Dressel und Hähndel, 1987)



⇒ Isodur®/IBDU show excellent results proving very constant N uptake over a long term period (upper part of the graphics) as the cuttings prove

⇒ COMPO's Isodur®/IBDU also showed the best results by long term examination of leaching (see below part of the graphics)

⇒ IBDU proves a higher efficiency compared to Ureaform-Nitrogen, another slow-release form of Nitrogen.

(N-fertil.: 4 x 0,7 g N/pot; Sand construction; Aug. 85 – Nov. 1986)

⇒ Permanent Research and Product Development at BASF Agriculture Centre Limburgerhof/Germany



Floranid® – Impact on Rooting



No Fertilizer



NPK Mineral Fertilizer

⇒ inferior rooting



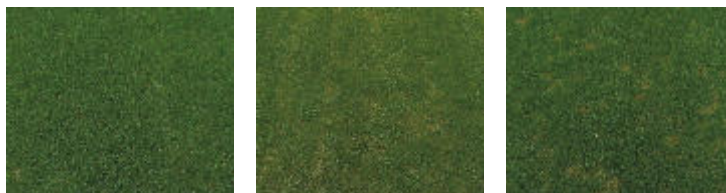
Floranid® Permanent

⇒ very good rooting



Floranid® – No Scorching with the lowest Salinity

(D722/06/VBG/413; Limburgerhof; 24 g N/m²/a in 3 applic., in March, June, August; appl.: 18.08.; photos: 22.08.)



Floranid®

Ammonium Sulphate

Urea

- ⇒ No Scorching by using **Floranid®** Slow Release Fertilizer
- ⇒ Standard Fertilizers such as Ammonium Sulphate and Urea only have short term effect and may burn the turf

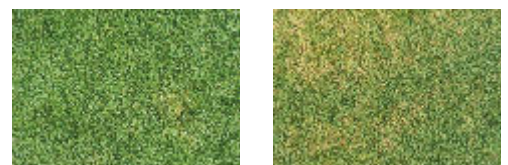
Salt Index of different Fertilizers

Fertilizer	%N	Salt Index	Salt indices per unit N
IBDU/Isodur®	31	5	0,1
Ureaformaldehyde	38	10	0,3
Organic Material	5	4	0,8
Urea	46	75	1,7
Ammonium Nitrate	33	105	3,7
Ammonium Sulphate	21	69	3,2
Calcium Nitrate	12	53	4,4
Potassium Nitrate	14	74	5,3

- ⇒ Isodur®/IBDU with the lowest salt index and least burning potential
- ⇒ Salinity of 32 Nitrogen units from Isodur® is comparable with only 1 Nitrogen unit of Ammonium Sulphate
- ⇒ **Floranid®** applications do not cause scorch, even when applied at high rates

- ⇒ For low cut turf (e.g. golf greens) COMPO's Floranid® Eagle range is a very safe product without any scorching hazard. The turf aspect is healthy and green lasting 8-12 weeks.
- ⇒ Standard NPK fine grades lead to uneven growth with the potential hazard of scorch. Frequent applications are expensive, labour intensive and undesirable.

(D714/2006, GC Limburgerhof; application 80 kg/ha N on 30.06. on dew-moistured turf, Foto; 4.7.)



Floranid® Eagle

Conventional fine grade Fertilizer



Floranid® – The Advantages

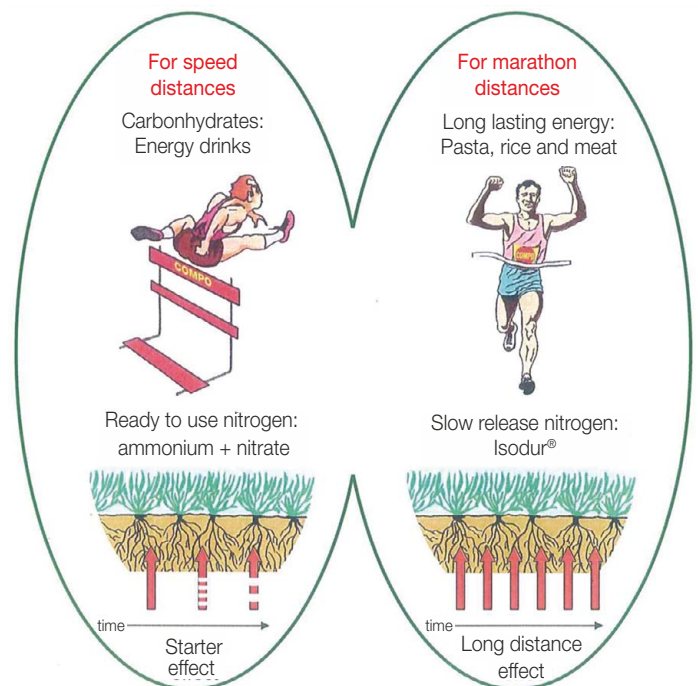


- ⇒ Highly efficient Slow Release Fertilizer
- ⇒ Continuous and even growth
- ⇒ Better colour of turf grass and excellent ground cover
- ⇒ Lowest Salt Index/No Scorching
- ⇒ Healthier turf from even Nutrition
- ⇒ Lowest Nitrogen leaching, even in pure sand
- ⇒ Better rooting and improved resistance to wear

High Performance Nutrition:


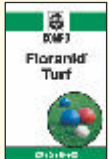


Like Sportsmen, turf should be fed evenly in order to avoid breakdowns

- ⇒ Ammonium/Nitrate: Instant N-Nutrition
- ⇒ Isodur®: Slow Release N-Nutrition (100% plant available)





Floranid® – Slow release Turf fertilizer

Product	Composition	Characteristics	Packaging	Use
Floranid® Permanent	16+7+15(+2MgO+9%S+0,5% Fe+TE) 37% IBDU-N 	Floranid® Permanent is a complete slow release fertiliser with a broad field of use in turf, landscaping and horticulture. Homogenous granules, each containing the same nutrient ratio. Turf granule size (0.7-2.8 mm) Longevity: 12 weeks depending on temperature and moisture	25 kg bag Pallet size: 40 bags à 25 kg Container: 20': 17,5 mt	<u>Public areas, parks:</u> 30 - 50 g/m ² 1-3 application per year <u>Sports, turf, playing fields:</u> 40 - 50 g/m ² 1-3 application per year <u>Golf fairways</u> 30 - 50 g/m ² 2-3 application per year
Floranid® Turf	20+5+8(+2MgO+7%S+0,3% Fe+TE) 47% IBDU-N 	Floranid® Turf is a complete slow release fertiliser, specifically for turf of medium to high use. Homogenous granules, each containing the same nutrient ratio. Turf granule size (0,7-2,8 mm) Longevity: 12 weeks depending on temperature and moisture	25 kg bag Pallet size: 40 bags à 25 kg Container: 20': 17,5 mt	<u>Sports turf, playing fields:</u> 40 - 60 g/m ² 1-3 application per year <u>Greens:</u> 40 - 60 g/m ² 2-3 application per year
Floranid® Master extra	19+5+10(+2MgO+8%S + 0,5% Fe+TE) 45% IBDU-N 	Floranid® Master extra is a complete slow release fertiliser for golf greens and low cut turf. Homogenous granules, each containing the same nutrient ratio. Fine granule size (0,5-1,8 mm) Longevity: 12 weeks depending on temperature and moisture	25 kg bag Pallet size: 40 bags à 25 kg Container: 20': 17,5 mt	<u>Tees:</u> 30 - 40 g/m ² 3-4 application per year <u>Greens:</u> 20 - 40 g/m ² 4-6 application per year
Floranid® Eagle	24+5+10(+3%S+1,0% Fe+TE) 61 % IBDU-N 	Floranid® Eagle is a complete slow release fertiliser with emphasis on nitrogen for golf greens and low cut turf. Homogenous granules, each containing the same nutrient ratio. Very fine granule size (0,5-1,4 mm) Longevity: 12 weeks depending on temperature and moisture	25 kg bag Pallet size: 40 bags à 25 kg Container: 20': 17,5 mt	<u>Tees:</u> 30 - 40 g/m ² 3-4 application per year <u>Greens:</u> 20 - 40 g/m ² 4-6 application per year

Further Products:

Floranid® Club 10+5+20 (4MgO + 8% S + 0,5% Fe + TE)	0,7–2,8 mm
Floranid® NK 14+0+19 (+3MgO + 10% S)	0,7–2,8 mm
Floranid® N32 32+0+0	0,7–2,8 mm
Floranid® Eagle K 12+6+24 (+ 8% S + 0,4% Fe + TE)	0,5–1,4 mm
Floranid® Eagle NK 20+0+18 (+2 MgO + 7% S + 0,3% Fe + TE)	0,5–1,4 mm
Floranid® Eagle Start 18+24+5 (+1% Fe + 0,5% Mn)	0,5–1,4 mm

COMPO GmbH & Co. KG
Post Box 2107 · D-48008 Münster
Tel.: +49 02 51/32 77-0
Fax: +49 02 51/32 77-225
e-mail: info@compo.de
Internet: www.compo.com

