BRANDT®

Turf and Ornamental Catalog

- Nutrition
- Pest and Disease Control
- Adjuvants
- Utility Products
- Pond Dyes
- Water Treatment

GROWING THE EXTRA MILE

with our budding line of turf and ornamental solutions

BRANDT is a leading manufacturer of specialty inputs for the agriculture, turf and ornamental, and lawn and garden markets. The company has been at the forefront of plant health since 1953 and offers one of the largest selections of liquid micronutrients. The company also offers adjuvants, colorants and turf protection solutions to fit every course budget and need.

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Foliar Nutrients

Scan to see how
BRANDT Manni-Plex works

BRANDT® Manni-Plex®

High Performance Foliar Nutrients

BRANDT Manni-Plex delivers the right nutrients, in the right form which allows for maximum turf health. Unlike other nutrient forms, the nutrient elements in BRANDT Manni-Plex formulations are complexed with sugar alcohol. The proprietary complex has a very small molecular size and shape, which allows BRANDT Manni-Plex to enter the plant through small stomata and transcuticular pores on the leaf surface and helps get more nutrients into the turfgrass.

Once BRANDT Manni-Plex nutrients are inside the plant, they move quickly and freely through the phloem to the plant growth areas. This allows the plant to fully utilize the applied nutrients, which results in improved plant health and turfgrass quality.

The correlation of sugar alcohol complexes and nutrient mobility within plants have been validated in University studies. Research showed that plants that were rich in sugar alcohol complexes, such as mannitol, had better distribution of nutrients such as boron from leaves through the phloem and a higher accumulation in fruit tissues. UC Davis.

Key Benefits

- Formulated with a sugar alcohol complex, which turfgrass views as a natural source
- Small molecular size and shape improves nutrient absorption
- Nutrients support plant physiological processes including growth, development and response to environmental stress
- Proprietary formulation coats leaves and adheres to the leaf surface, making it available to the plant longer
- Compatible with most insecticides, fungicides and PGR's
- May also be used in fertigation

BRANDT® Foli-Cal®

5-0-0 | 10.0% Ca

Derived from calcium acetate, calcium nitrate

BRANDT Manni-Plex Cal-Mag

7-0-0 | 5.3% Ca | 2.6% Mg

Derived from calcium nitrate, magnesium nitrate

BRANDT Manni-Plex Cal Zn

6-0-0 | 6.0% Ca | 3.0% Zn

Derived from calcium nitrate, zinc nitrate

BRANDT Manni-Plex Eagle

7-0-14 | 0.5% Fe | 0.25% Mn

Derived from urea, potassium carbonate, iron EDTA and manganese EDTA

BRANDT Manni-Plex Grow

12-0-6 | 0.25% Cu | 0.5% Fe | 0.25% Mn

Derived from potassium nitrate, urea, copper EDTA, iron EDTA and manganese EDTA

BRANDT Manni-Plex Mg

5-0-0 | 4.0% Mg

Derived from magnesium nitrate, urea

BRANDT Manni-Plex Mn

7-0-0 | 5.0% Mn

Derived from manganese nitrate, urea

BRANDT Manni-Plex Root Builder

3-0-0 | 0.5% Mg | 0.2% B | 0.05% Cu | 0.9% Mn | 4.7% Zn

Derived from magnesium nitrate, copper nitrate, manganese nitrate, zinc nitrate, urea and sodium borate

BRANDT Manni Plex Si

1.0% Fe

Derived from iron EDTA

ALSO CONTAINS NON-PLANT FOOD INGREDIENT:
10.0% Silicon Dioxide (SiO_2) derived from sodium silicate

BRANDT Manni-Plex Total Turf

5-0-0 | 1.2% Mg | 2.85% Fe | 0.45% Mn | 0.65% Zn

Derived from magnesium nitrate, iron nitrate, manganese nitrate, zinc nitrate and urea

BRANDT Manni-Plex Traffic

0-0-6

5.0% silicon dioxide (SiO_2) derived from potassium silicate

BRANDT Manni-Plex Ultra Turf

4-0-2 | 0.5% Mg | 0.25% B | 0.5% Cu | 2.0% Fe | 0.5% Mn | 0.25% Mo

Derived from urea ammonium nitrate, potassium nitrate, magnesium nitrate, copper nitrate, iron nitrate, manganese nitrate, sodium borate and sodium molybdate

BRANDT iHammer
Foliar Nutrients

BRANDT iHammer is a joint venture between BRANDT and Innovation Hammer, LLC. The company's mission and tagline, Innovation Without Boundaries, reflects the company's focus on plant health research and technology.

BRANDT iHammer is led by Mike McBride, President, and Dr. Arthur Nonomura, Chief Science Officer. Mike has over 35 years of experience in the turf industry. Dr. Nonomura and the late Dr. Andrew A. Benson spent decades conducting plant health research at University of California that led to the discovery of the relationship of plant nutrition to glycoregulation.

One of the most highly renowned scientists of the 20th century, Dr. Benson was a world leader in the field of photosynthesis. Both Dr. Nonomura's and Dr. Benson's works in carbon fixation, plant lectin cycle, and plant energy production have been published in many prestigious science journals, including the Journal of Plant Nutrition.

Through this joint venture, BRANDT iHammer has been able to manufacture and commercialize new plant health technologies to improve fertility, photosynthesis, carbohydrate content and energy flow. These technologies give course managers new products that maximize plant health and minimize plant stress during periods of adverse environmental conditions and abiotic stress.

BRANDT iHammer: Patented Glycoregulator Technology

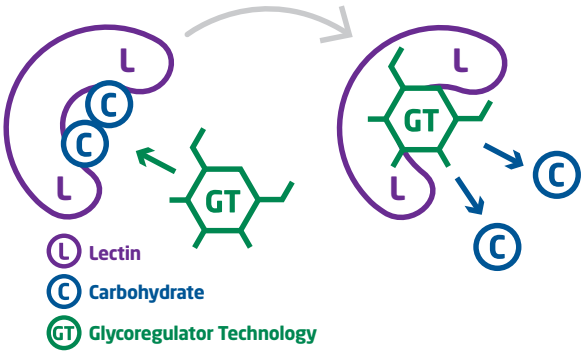
The science behind BRANDT iHammer is based on glycoregulation in the field, i.e., BRANDT iHammer added the nutritional interaction of carbohydrates in the Plant Lectin Cycle to the grower's tool chest.

Lectins have an affinity to bind carbohydrates and we saw that was a problem because it made energy-packed nutrition unavailable to the plant for photosynthesis and metabolism.

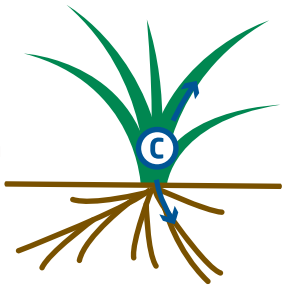
BRANDT iHammer's technology solves this issue, by preventing lectins from binding those carbs. BRANDT iHammer formulations "unlock and release" carbs off of lectins. Now, the plant is able to access more carbohydrates for use in key life processes.

The end result is our glycoregulator technology that makes more nutrition and energy available to stimulate root and top growth, while keeping turf resilient under environmental stress conditions.

BRANDT iHammer Unlocks and Releases Carbs



BRANDT iHammer Increases Nutritive Energy Flow to Photosynthesis and Respiration



BRANDT iHammer Formulations

Three formulations are currently available for turf and ornamentals.

- They contain patented glycoregulator technology
- Feature high quality, stable and readily available nutrients
- Are compatible with most fertilizers, pesticides and adjuvants

MegAleX®

3-0-0

Derived from urea

Recommended for golf greens to give turf extra support from heavy foot traffic and play. Helps build vibrant, high performance turf, encourages root growth and promotes vigor in shade areas. For flowering ornamentals, this formula encourages bud and bloom. Provides a stable, readily available source of nitrogen that resists soil tie up. Does not contain phosphate. Advances fertility.

Advantage®

5-0-1	0.05% B	0.75% Mn	0.001% Mo	0.75% Zn

Derived from potassium nitrate, urea, sodium borate, manganese EDTA, sodium molybdate and zinc EDTA

Recommended for all golf turf areas, sports turf, landscape and ornamentals. Contains a robust nutrient package to correct deficiencies and improve turf health. Advances fertility.

Upplause® Plus

10-0-0

Derived from ammonium sulfate and urea

Recommended for fairways, sports turf, and landscaping. Contains a stable, readily available source of nitrogen that resists soil tie up and helps build strong, vibrant turf that can stand up to environmental stress. Excellent for turf establishment and turf strength. Advances fertility.

BRANDT® iHammer

Innovation Without Boundaries®

Specialty Nutrients

BRANDT® Organiplex®

Liquid Amino Acid Complexed Nutrients

BRANDT Organiplex is a proprietary liquid nutrient line that contains high quality amino acids. Amino acids are naturally occurring organic compounds that are essential to turf quality and playability. Plants use amino acids to make proteins – the main component of living cells. It is important for plants to have adequate levels of amino acids to carry out their physiological functions and create sufficient protein. When plant protein levels are too low, plants are more susceptible to disease. BRANDT Organiplex delivers nutrients efficiently and is an excellent tool for managing and correcting deficiencies in conventional or organic operations.

Applying foliar amino acids provides plants with the building blocks they need for protein synthesis. It helps boost plant growth, particularly in environmentally stressful conditions such as salinity or water stress. Applying supplemental amino acids may also increase chlorophyll synthesis and content.

Key Benefits

- Excellent foliar mobility
- High concentration of amino acids
- Clean product with long term stability

BRANDT Organiplex 8% Ca

8.0% Ca

Derived from calcium amino acid complex

BRANDT Organiplex Micro Mix

2.0% Fe | 2.0% Mn | 2.0% Zn

Derived from iron amino acid complex, manganese amino acid complex, and zinc amino acid complex

BRANDT Converge

Nutrition with Nitamin® Extended Release

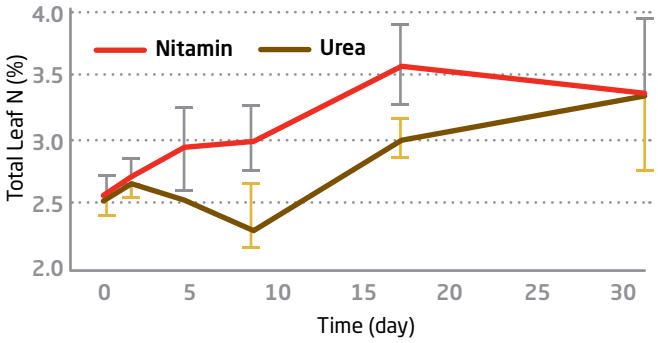
BRANDT Converge formulations contain Nitamin, a targeted foliar nitrogen and patented liquid nutrient source. It is designed to make some nitrogen immediately available, while reserving the rest to provide a steady supply of nitrogen.

Key Benefits

- Nitamin is applied directly to the leaf surface for rapid absorption and green-up
- Low salt index and low levels of ammonia and biuret, it is a safe fertilizer solution
- Due to its high N concentration, it stays soluble longer – delivering enhanced foliar uptake over an extended period of time
- Compatible with a wide range of micronutrients and plant protection chemicals

Enhanced Nitrogen Uptake

Source: University of Florida, Dr. Gene Albrigo, Dr. James Syvertesen



BRANDT Converge SRN 18-0-6

18-0-6 | 0.05% Cu | 0.1% Fe | 0.05% Mn | 0.05% Zn

Derived from potassium nitrate, triazone, methylene urea, urea, copper EDTA, iron EDTA, manganese EDTA and zinc EDTA

• 5.4% slowly available nitrogen from triazone and methylene urea

Contains slowly available nitrogen and a fully chelated micronutrient package. Provides quick greening without rapid top growth. Nitrogen promotes consistent turfgrass shoot growth.

BRANDT Converge SRN 18-3-6

18-3-6 | 0.05% Cu | 0.1% Fe | 0.05% Mn | 0.05% Zn

Derived from triazone, methylene urea, urea, potassium nitrate, potassium polyphosphate, copper EDTA, iron EDTA, manganese EDTA and zinc EDTA

• 5.4% slowly available nitrogen from triazone and methylene urea

Contains slowly available nitrogen and a fully chelated micronutrient package. Provides quick greening without rapid top growth. Nitrogen promotes consistent turfgrass shoot growth.

BRANDT Converge SRN 30-0-0

30-0-0

Derived from triazone, methylene urea and urea

• 18% slowly available nitrogen from triazone and methylene urea

Contains slowly available nitrogen. Promotes root development and turf vigor. Nitrogen promotes consistent turfgrass shoot growth.

Premium Liquid Nutrients

BRANDT MKS

0-0-4 | 2.1% Mg | 3.2% S

Derived from sulfate of potash magnesia

Specialty fertilizer that contains highly available and efficient Mg, K and S. Corrects nutrient deficiencies. Improves turf strength, vigor and color [by supplying Mg, which is essential to chlorophyll production].

BRANDT Parco-Root XL

1.5% Mg | 4.0% S | 0.16% B | 3.5% Fe | 0.75% Mn | 0.003% Mo | 0.75% Zn

Derived from magnesium sulfate, sodium borate, iron EDTA, ferrous sulfate, manganese sulfate, sodium molybdate, and zinc sulfate

Multi-nutrient formulation packed with micronutrients to improve turf strength and support root growth. May be used as a foliar or soil application.

BRANDT Plant Start

8-27-2 | 0.001% Mo

Derived from ammonium phosphate, potassium polyphosphate, sodium molybdate and kelp (*Ascophyllum nodosum*)

27% liquid phosphorus fertilizer. Promotes early growth and healthy root systems. Recommended as a supplement in well-balanced nutrition programs.

N-Boost®

NON-PLANT FOOD INGREDIENTS:

Yeast extract. 0.004%
Bacterial fermentation extracts 0.024%
Adenine compounds . . . . . >3x10-5%

Derived from fermentation of sugarcane using mixed yeast and lactic acid bacteria culture is not a viable culture

Natural microbial based enhancer that boosts nutrient utilization from both liquid and solid fertilizer programs. Enhances chloroplast activity which allows the plant to use available resources more efficiently and boost nutrient uptake.

Liquid Phosphite Nutrient Blends

BRANDT® Liqui-Phi™

0-0-25

Derived from potassium phosphite

25% highly soluble phosphite fertilizer. Promotes plant and turf vigor, root development and transplant establishment.

BRANDT® Mega-Phi™

*contains **BRANDT iHammer** technology*

2-0-16

Derived from urea and potassium phosphite

16% highly soluble phosphite fertilizer with a spike of nitrogen. Promotes plant and turf vigor, root development and transplant establishment.

Soil Applied Liquid Nutrients

BRANDT 20-K

2-0-20

Derived from urea, potassium acetate

A high potassium foliar fertilizer that prevents and corrects deficiencies quickly and efficiently. It is unique to other forms of potassium because of the organic-based nutrient carrier: acetate. Low salt index and has excellent compatibility with other fertilizers and turf protectants.

BRANDT 30-K

0-0-30

Derived from potassium carbonate

30% liquid potassium fertilizer. Potassium promotes root growth and impacts plant response to stress.

BRANDT Flash Dance

1-0-0 | 5.0% Fe

Derived from urea, ferrous sulfate

5% liquid iron supplement with penetrants that enhance uptake. Iron improves turf color and provides quick green up. It is especially useful before tournament play.

BRANDT Supreme Green

12-0-0 | 0.5% Mg | 4.0% S | 5.0% Fe | 1.0% Mn

Derived from urea, magnesium sulfate, ferrous sulfate and manganese sulfate

Contains 12% liquid nitrogen and a micronutrient package. Improves turf vigor. Nitrogen promotes consistent turfgrass shoot growth. Compatible with most fertilizers.

BRANDT Agra Sol*

Dry Lignosulfonate Nutrient

AGRA SOL dry soluble powder chelated micronutrients are the most economical way to supply micronutrients to plants. They mix easily with water and can be applied alone, with non-phosphorus liquid fertilizers. They can also be added in fertigation or to dry granular fertilizers.

BRANDT Agra Sol Micro Mix

5.0% Mg | 0.5% B | 1.5% Cu | 4.0% Fe | 4.0% Mn | 0.1% Mo | 1.5% Zn

Derived from magnesium sulfate, sodium borate, copper lignosulfonate, iron lignosulfonate, manganese lignosulfonate, sodium molybdate and zinc lignosulfonate

BRANDT Agra Sol Turf Mix

4.0% Mg | 0.5% B | 2.0% Fe | 2.0% Mn | 0.5% Zn

Derived from magnesium sulfate, sodium borate, iron lignosulfonate, manganese lignosulfonate and zinc lignosulfonate

BRANDT Agra Sol 15% Fe

15.0% Fe

Derived from iron lignosulfonate

*Not all BRANDT Agra Sol formulations are listed in this catalog. To learn more, talk to your BRANDT territory sales manager.

Seaweed/Humic Acid Blends

BRANDT In-Cyte

3-12-1

Derived from ammonium polyphosphate, potassium citrate and kelp extract *(Ascophyllum nodosum)*

12% liquid phosphate with sea plant extract derived from *Ascophyllum nodosum*.

BRANDT Parco-Root XL

1.5% Mg | 4.0% S | 0.16% B | 3.5% Fe | 0.75% Mn | 0.003% Mo | 0.75% Zn

Derived from magnesium sulfate, sodium borate, iron EDTA, ferrous sulfate, manganese sulfate, sodium molybdate, and zinc sulfate.

Special formulations of natural biostimulants and essential micronutrients containing solubilized forms of essential amino acids, vitamins, humic matter and chelating agents. Builds turf strength and supports root growth. May be used as a foliar or soil application

BRANDT Plant Start

8-27-2 | 0.001% Mo

Derived from ammonium phosphate, potassium polyphosphate, sodium molybdate and kelp (*Ascophyllum nodosum*)

27% concentrated liquid plant food formulated to promote early growth and healthy root systems. This product is recommended for use as a supplement to a well balanced fertilizer program.

BRANDT Seaweed Max

0-0-2 | 25.0% Seaweed Extract

Derived from: Kelp Extract (*Ascophyllum nodosum* and Potassium Hydroxide*) * Potassium Hydroxide as an extraction agent

25% seaweed extract concentrate derived from *Ascophyllum nodosum*. An important management tool to enhance plant tolerance to and recovery from abiotic stress, resulting in better establishment and overall vigor.

BRANDT® Uptake® 12

0-0-3

Derived from potassium hydroxide
ALSO CONTAINS NONPLANT FOOD INGREDIENT:
12% humic acid derived from leonardite. Humic acid analyzed by acid precipitation method.

12% liquid humic acid formulation with a spike of nitrogen. Supplies organic matter in a convenient, ready-to-use form. May be used on warm and cool weather turfgrass. May be applied as a foliar, or in fertigation.

BRANDT Uptake Advanced

6.0% Humic Acid Derived from Leonardite Ore

6% liquid humic acid. Supplies organic matter in a convenient, ready-to-use form. Compatible with most adjuvants, pesticides and fertilizers including 4-0-8, phosphoric acid, UAN solutions, and non-chelated micronutrients, including iron. May be applied as a foliar or through fertigation.

Greens Grade Fertilizers

BRANDT® Noculate®* Greens Grade Fertilizers

BRANDT NOCULATE greens grade fertilizers are ultra-fine, dry soluble formulations that contain NPK, microbes, humic acid, and wetting agents. They are recommended for greens maintenance to help maintain strong, vigorous turf.

Key Advantages

- Enhances germination
- Microbes decompose organic materials in the soil
- Humic acid may aid micronutrient uptake
- Wetting agents reduce surface tension and improve soil water penetration

BRANDT Noculate 8-3-17

8-3-17 | 4.0% Fe | 1.0% Mg | 3.1 % Mn | 6.0% S

Derived from monoammonium phosphate, urea, methylene urea, potassium sulfate, magnesium sucrate, iron sucrate, manganese sucrate and bio-solids

• 3.0% slowly available nitrogen from methylene urea

BRANDT Noculate 11-2-11

11-2-11 | 2.0% Mg | 12.0% S | 0.5% Fe

Derived from ammonium sulfate, monoammonium phosphate, potassium sulfate, magnesium sucrate, iron sucrate and bio-solids

BRANDT Noculate 13-4-13

13-4-13 | 1.0% Mg | 4.0% S | 1.0% Fe | 0.5% Mn

Derived from monoammonium phosphate, urea, methylene urea, potassium sulfate, magnesium sucrate, iron sucrate, manganese sucrate and bio-solids

• 1.5% slowly available nitrogen from methylene urea

*Not all BRANDT Noculate formulations are listed in this catalog. To learn more, talk to your BRANDT territory sales manager.

BRANDT® Parco-Blend™ Fertilizers

BRANDT Parco-Blend 13-2-13

13-2-13 | 3.5% Ca | 1.5% Fe | 4.8% Mg | 1.5% Mn | 6.0% S

Derived from ammonium sulfate, monoammonium phosphate, methylene urea, potassium sulfate, dolomite, magnesium sucrate, iron sucrate and manganese sucrate

• 5.0% Slowly available nitrogen from methylene urea

BRANDT Parco-Blend 17-4-17

17-4-17 | 0.95% Fe | 5.5% S

Derived from monoammonium phosphate, urea, methylene urea, potassium sulfate, iron sucrate and bio-solids

• 3.2% Slowly available nitrogen from methylene urea

Pest, Disease and Weed Control

Fungicides, Insecticides and Miticides

BRANDT Ecotec® Plus

Broad spectrum, contact insecticide/miticide. The unique dual-mode of action provides quick kill and control to all stages of insect development.

BRANDT® TurfZilla™

Fast acting liquid phosphite fungicide designed to control certain diseases on turf and ornamental crops. Prevents disease through multiple modes of action, thus decreasing the chance for the development of resistant pathogen strains. Contains 29% phosphorus acid.

TriTek®

Broad spectrum 3-in-1 fungicide/insecticide/miticide. Formulated with highly refined, emulsified mineral oil. Effectively coats plant surface to smother and kill pests/disease.

Nematicides

Neo-Tec® S.O.

Liquid nematicide derived from sesame plant extract. Knocks down parasitic nematodes quickly. May be used on golf courses and sports fields. Also available in granular form: Neo-Tec G.S.O.

Scan to learn more about Neo-Tec S.O.

Adjuvants

Surfactants

Non-Ionic Surfactants

BRANDT Magnify

Non-ionic surfactant and water conditioner. Contains ammonium ions to improve activity, wetting, spreading and penetration. Designed for use with herbicides, defoliants and desiccants that require ammonium sulfate/nitrate and a surfactant. Recommended for use with glyphosate and other non-selective herbicides.

BRANDT No Foam A

General purpose, low foam non-ionic surfactant and activator. Improves foliar wetting and enhances spray application efficacy. Humectant properties slow the dry down of the spray application.

BRANDT Spread-It

Non-ionic surfactant. Provides rapid wetting, uniform spreading and deposition of spray applications.

BRANDT 719 Spreader

Proprietary non-ionic surfactant/wetting agent with trisiloxane alkoxylate. Improves pesticide spray coverage and uptake. Prevents evaporation and runoff that can occur with traditional organosilicone agents. May be used at a lower rate than conventional non-ionic surfactants.

Vegetable Oil Concentrates

BRANDT M.S.O. (Methylated Seed Oil)

High quality activator/penetrant. Contains 15% surfactant versus the 10% typically found in competitive products. Provides superior wetting and spreading to maximize pesticide application efficacy. Recommended as an alternative to non-ionic surfactants and petroleum crop oils.

Silicone Based Surfactants

BRANDT Super Wetter

Highly effective non-ionic surfactant/penetrant. Contains 100% organo-modified siloxane, which may be used with spray oils and EC formulations. Reduces spray application surface tension to allow better coverage, wetting and faster absorption.

Stickers

BRANDT Umbrella

Multi-function spreader/sticker. Enhances the efficacy of foliar applied pesticides and pre-emergent herbicides. Improves spreading and forms a rain fast film that keeps the spray application on the plant. Also adheres pre-emergent herbicides to the soil.

Multi-Function Adjuvants

BRANDT No Foam B

Non-ionic surfactant and activator. Promotes quick wetting and uniform spreading of pesticides, including organophosphate formulations. May be used to buffer highly alkaline water. Ideal for use with fungicides/insecticides that are sensitive to high pH.

BRANDT Super 7

Multi-function surfactant, penetrant, deposition aid and acidifier. Decreases application surface tension to improve deposition, coverage, penetration and efficacy. Reduces spray drift. Lowers pH of the spray solution to prevent alkaline hydrolysis of pesticides sensitive to high pH.

BRANDT® Torpedo®

Multi-function non-ionic surfactant, penetrant and deposition aid. Designed for use with pesticides when a non-ionic surfactant, crop oil concentrate, or methylated seed oil is required. The pH neutral formulation works well with systemic chemistries. It decreases surface tension of the spray application to improve deposition, coverage and penetration. Helps reduce drift.

Acidifier and Buffering Agents

BRANDT® Indicate 5®

Multi-function non-ionic surfactant, pH indicator and acidifier. Improves spray application coverage and performance. Built-in indicator turns spray water pink when the optimum pH level of 4.5-5.5 is reached.

Soil Wetters

BRANDT Topcoat

Ready-to-use soil wetting agent. Recommended for hard-to-wet soil and localized dry spot. May be used on sensitive bentgrass on greens and tee boxes. The concentrated solution lasts nearly all season with just 1-2 sprays.

BRANDT Adjuvants Quick Reference Guide

Product	Use Rate*	Description	Acidifier Buffer	Deposition Aid	Drift Control	Penetrant	Spreader	Sticker	Water Conditioner	Soil Wetter	Utility	OMRI Listed
BRANDT 719 Spreader	6-12 oz/ 100 gal	Non-ionic wetting agent, spreader, and penetrant				■	■			■		■
BRANDT Indicate 5	5-32 oz/ 100 gal	83% non-ionic surfactant containing a pH indicator	■				■		■			
BRANDT Magnify	1-4 qts/ 100 gal	APE free surfactant and water conditioner					■		■		■	
BRANDT M.S.O.	1/2-2 pts/ 100 gal	100% active modified vegetable oil concentrate		■		■	■					
BRANDT No Foam A	1/2-2 pts/ 100 gal	90% active non-ionic spreader/activator					■					
BRANDT Spread-It	3-8 oz/ 100 gal	Non-ionic surfactant that improves foliage wetting					■			■		
BRANDT Super Wetter	3-6 oz/ 100 gal	Premium 100% organosili-cone super spreader				■	■					■
BRANDT Super 7	1/2-2 pts/ 100 gal	Non-ionic, APE free, deposition aid, acidifier, penetrant	■	■	■	■	■					
BRANDT Topcoat	4-16 oz/ 1,000 sq ft	Concentrated soil surfactant and penetrant for compacted soils								■		
BRANDT Torpedo	1/2-2 pts/ 100 gal	pH neutral deposition aide, surfactant & penetrant		■	■	■	■					
BRANDT Umbrella	4-16 oz/ acre	100% active non-ionic spreader/terpene resin sticker		■			■	■				
BRANDT No Foam B	1/2-3 pts/ 100 gal	Non-ionic surfactant and buffer blend	■				■					

**Always read and follow label instructions*

Utility Products

Spray Pattern Indicators

BRANDT® Big Foot® Blue SS

Concentrated blue colorant and temporary spray pattern indicator for turf and landscape. *Also available in regular strength (BRANDT Big Foot Blue regular strength).*

BRANDT Big Foot Foamy

Foam spray marker produces highly visible white foam that marks the outside edge of a spray swath. Can be used with any boom or ground sprayer application.

BRANDT Big Foot Green SS

Concentrated green temporary spray pattern indicator and hydroseeding colorant. Ideal for temporary touch ups on turf. Only available in super strength concentrate.

BRANDT Big Foot Red SS

Concentrated red colorant and temporary spray pattern indicator. Designed to replace rhodamine red dyes.

Please see GRIGG® catalog for pigment products.

Equipment Cleaners and Defoamers

BRANDT Defoamer

Tank defoamer. Controls entrained and surface foam in the spray tank.
****Only available for sale in the Eastern U.S.***

BRANDT Neutra Clean

Powerful spray tank cleaner and neutralizer. Re-emulsifies and suspends spray tank residue so that it may be removed with ease. Contains built-in water softeners.
****Only available for sale in the Eastern U.S.***

BRANDT Organics Defoamer

Premium silicone based anti-foaming agent. Prevents and treats foam in the tank mix.

BRANDT Pesticide Equipment Cleaner

Effective, all purpose tank and equipment cleaner. May be used on spray rigs and storage tanks to remove pesticide residue.
****Only available for sale in the Western U.S.***

BRANDT Tripleline Defoamer

High quality silicone based anti-foaming agent. Prevents and treats foam in the tank mix.
****Only available for sale in the Western U.S.***

Odor Control

BRANDT Odor Mask

Spray application additive contains oil of wintergreen to mask undesirable pesticide odors.

Water Treatment

Algaecides

BRANDT T.A.C.

Proprietary copper sulfate algaecide/bactericide. Provides quick and effective knock down in lakes, ponds, reservoirs, canals, lagoons and other water systems. Helps suppress odors and gases.

Pond Dyes

BRANDT® Blue Lagoon®

The flagship of BRANDT aquatic colorants. Provides a nice, even shade of blue throughout the body of water. Available in regular strength and super strength (SS).

BRANDT Blue Shadow SS

Blue green super strength colorant. Creates a deep aquamarine color in lakes, ponds and fountains. Imparts a pleasant shade reminiscent of the deep waters of the Caribbean.

BRANDT® Loch Ness® SS

Super strength black colorant. Has a rich, dark and clean appearance. Popular in landscapes because of the mirror effect it creates.

BRANDT Midnight Blue SS

Super strength blue/black colorant. Gives ponds, lakes, fountains and lagoons a unique deep water hue.

Tree & Ornamental

Tree & Ornamental

BRANDT has select nutritional products that are perfect for your tree and ornamental applications. These products were developed to help establish and maintain a healthy and vibrant plant. Rates available for deep root feedings, injection or drench.

BRANDT Agra Sol Micro Mix

5.0% Mg | 0.5% B | 1.5% Cu | 4.0% Fe | 4.0% Mn | 0.1% Mo | 1.5% Zn

Derived from magnesium sulfate, sodium borate, copper lignosulfonate, iron lignosulfonate, manganese lignosulfonate, sodium molybdate, zinc lignosulfonate

BRANDT Converge SRN 18-3-6

18-3-6 | 0.50% Cu | 0.1% Fe | 0.50% Mn | 0.50% Zn

Derived from potassium nitrate, triazone, methylene urea, urea, potassium polyphosphate, copper EDTA, iron EDTA, manganese EDTA and zinc EDTA

- 5.4% slowly available nitrogen from triazone and methylene urea

Contains slowly available nitrogen and a fully chelated micronutrient package.

BRANDT Converge SRN 30-0-0

30-0-0

Derived from triazone, methylene urea and urea

- 18% slowly available nitrogen from triazone and methylene urea

Contains slowly available nitrogen. Promotes root development.

BRANDT Manni-Plex Root Builder

3-0-0 | 0.5% Mg | 0.2% B | 0.05% Cu | 0.9% Mn | 4.7% Zn

Derived from magnesium nitrate, copper nitrate, manganese nitrate, zinc nitrate, urea and sodium borate

BRANDT Mega-Phi

*contains **BRANDT iHammer** technology*

2-0-16

Derived from urea and potassium phosphite

16% highly soluble phosphite fertilizer with a spike of nitrogen. Promotes plant and turf vigor, root development and transplant establishment.

BRANDT Parco-Root XL

1.5% Mg | 4.0% S | 0.16% B | 3.5% Fe | 0.75% Mn | 0.003% Mo | 0.75% Zn

Derived from magnesium sulfate, sodium borate, iron EDTA, ferrous sulfate, manganese sulfate, sodium molybdate, and zinc sulfate.

Special formulations of natural biostimulants and essential micronutrients containing solubilized forms of essential amino acids, vitamins, humic matter and chelating agents. Builds turf strength and supports root growth. May be used as a foliar or soil application

BRANDT Plant Start

8-27-2 | 0.001% Mo

Derived from ammonium phosphate, potassium polyphosphate, sodium molybdate and kelp (*Ascophyllum nodosum*)

27% liquid phosphorus fertilizer. Promotes early growth and healthy root systems. Recommended as a supplement in well-balanced nutrition programs.

BRANDT Seaweed Max

0-0-2 | 25.0% Seaweed Extract

Derived from: Kelp Extract (*Ascophyllum nodosum* and Potassium Hydroxide*)
* Potassium Hydroxide as an extraction agent

25% seaweed extract concentrate derived from *Ascophyllum nodosum*. An important management tool to enhance plant tolerance to and recovery from abiotic stress, resulting in better establishment and overall vigor.

BRANDT TurfZilla

Fast acting liquid phosphite fungicide designed to control certain diseases on turf and ornamental crops. Prevents disease through multiple modes of action, thus decreasing the chance for the development of resistant pathogen strains. Contains 29% phosphorus acid.

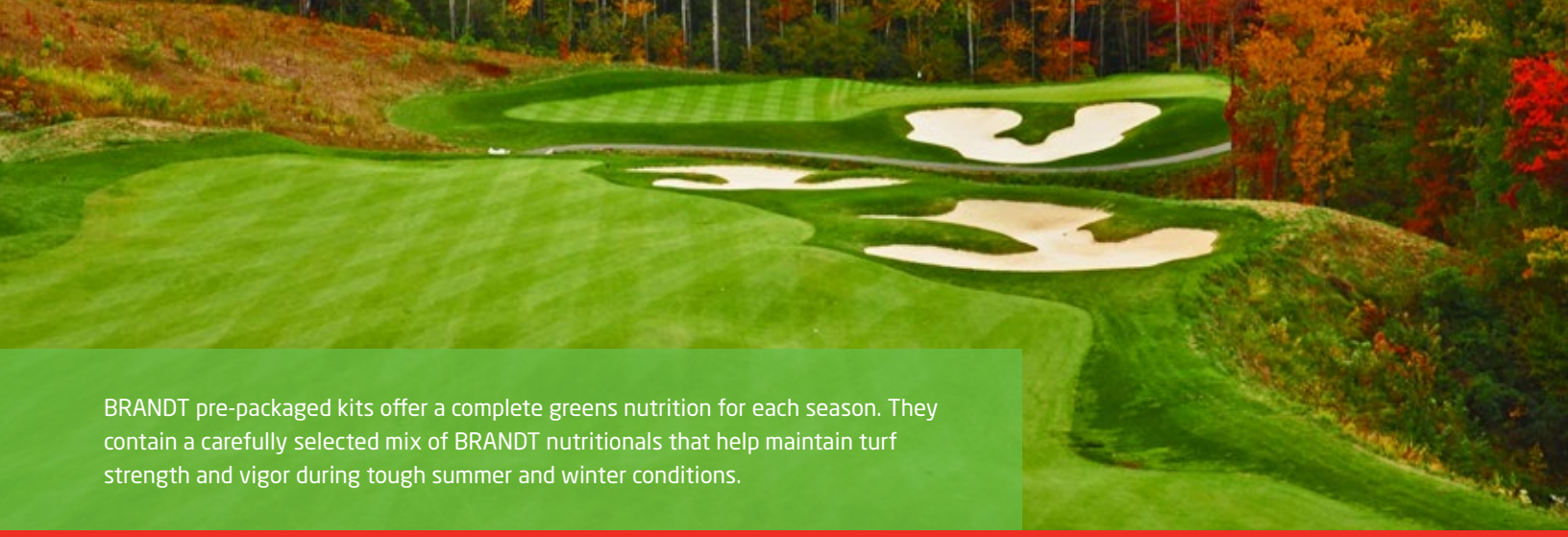
BRANDT Uptake 12

0-0-3

Derived from potassium hydroxide

ALSO CONTAINS NONPLANT FOOD INGREDIENT:
12% humic acid derived from leonardite. Humic acid analyzed by acid precipitation method.

12% liquid humic acid formulation with a spike of nitrogen. Supplies organic matter in a convenient, ready-to-use form. May be applied as a foliar, or in fertigation.



BRANDT pre-packaged kits offer a complete greens nutrition for each season. They contain a carefully selected mix of BRANDT nutritionals that help maintain turf strength and vigor during tough summer and winter conditions.

Fertilizing Greens Has Never Been Easier

Scan to learn more about BRANDT turf solutions

BRANDT Manni-Plex Foliar Nutrients

BRANDT has been an innovator in foliar nutrition for over 65 years. The company's flagship line of foliar nutrients, BRANDT Manni-Plex, is the pillar of BRANDT greens nutrition kits. The proprietary chemistry maximizes nutrient uptake, mobility and efficacy. It is an excellent tool for correcting nutrient deficiencies and maintaining turf vigor throughout the seasons.

BRANDT Success Kits for Foliar Nutrition

All Season Success Kit – For Weekly Application

1 kit treats 3 acres for 1 month.

Application Timing	Product	Application Rate	Cases
Week 1	BRANDT Foli-Cal	2.5 fl oz / 1,000 sq ft	1
	BRANDT Manni-Plex Mg	3 fl oz / 1,000 sq ft	1
	BRANDT Manni-Plex Grow	3 fl oz / 1,000 sq ft	1
Week 2	BRANDT Converge SRN 18-3-6 *18-3-6, 0.05% Cu, 0.10% Fe, 0.05% Mn, 0.05% Zn*	3 fl oz / 1,000 sq ft	2
	BRANDT Manni-Plex Eagle	3 fl oz / 1,000 sq ft	1
	BRANDT In-Cyte	3 fl oz / 1,000 sq ft	1
Week 3	BRANDT Foli-Cal	2.5 fl oz / 1,000 sq ft	
	BRANDT Manni-Plex Root Builder	3 fl oz / 1,000 sq ft	1
	BRANDT Converge SRN 30-0-0	3 fl oz / 1,000 sq ft	1
Week 4	BRANDT Converge SRN 18-3-6	3 fl oz / 1,000 sq ft	
	BRANDT Supreme Green *12-0-0, 0.5% Mg, 4.0% S, 5.0% Fe, 1.0% Mn*	3 fl oz / 1,000 sq ft	1
	BRANDT Parco-Root XL	3 fl oz / 1,000 sq ft	1
Every 3rd Spray	BRANDT Seaweed Max	1.5 fl oz / 1,000 sq ft	1

Summer Success Kit - For Weekly Application

1 kit treats 3 acres for 1 month.

Application Timing	Product	Application Rate	Cases
Week 1	BRANDT Manni-Plex Total Turf *5-0-0, 1.2% Mg, 2.85% Fe, 0.45% Mn, 0.65% Zn*	3 fl oz / 1,000 sq ft	1
	BRANDT Manni-Plex Mg *5-0-0, 4% Mg*	3 fl oz / 1,000 sq ft	1
	BRANDT Converge SRN 30-0-0 *30-0-0*	3 fl oz / 1,000 sq ft	2
Week 2	BRANDT Foli-Cal *5-0-0, 10% Ca*	3 fl oz / 1,000 sq ft	2
	BRANDT Manni-Plex Eagle *7-0-14, 0.5% Fe, 0.25% Mn*	3 fl oz / 1,000 sq ft	1
	BRANDT In-Cyte *3-12-1 enriched with Seaweed Extract from Ascophyllum nodosum*	3 fl oz / 1,000 sq ft	1
Week 3	BRANDT Foli-Cal	3 fl oz / 1,000 sq ft	
	BRANDT Manni-Plex Root Builder *3-0-0, 0.5% Mg, 0.2% B, 0.05% Cu, 0.9% Mn, 4.7% Zn*	3 fl oz / 1,000 sq ft	1
	BRANDT Converge SRN 30-0-0	3 fl oz / 1,000 sq ft	
Week 4	BRANDT Foli-Cal	3 fl oz / 1,000 sq ft	
	BRANDT Manni-Plex Mn *7-0-0, 5% Mn*	3 fl oz / 1,000 sq ft	1
	BRANDT Manni-Plex Ultra Turf *4-0-2, 0.5% Mg, 0.25% B, 0.5% Cu, 2% Fe, 0.5% Mn, 0.25% Mo*	3 fl oz / 1,000 sq ft	1
Every 3rd Spray	BRANDT Seaweed Max *25% Seaweed Extract derived from Ascophyllum nodosum*	1.5 fl oz / 1,000 sq ft	1

Multi-Course Success Kit - For 2x/Month Application

1 kit treats 6 acres for 3 months.

Application Timing	Product	Application Rate	Cases
Spray 1 for month	BRANDT Foli-Cal	3 fl oz / 1,000 sq ft	4
	BRANDT Manni-Plex Grow *12-0-6, 0.25% Cu, 0.5% Fe, 0.25% Mn*	3 fl oz / 1,000 sq ft	4
	BRANDT Parco-Root XL *Multi-nutrient formulation loaded with micronutrients*	3 fl oz / 1,000 sq ft	4
	BRANDT Converge SRN 30-0-0	6 fl oz / 1,000 sq ft	6
Spray 2 for month	BRANDT Converge SRN 18-0-6 *18-0-6, 0.05% Cu, 0.10% Fe, 0.05% Mn, 0.05% Zn*	3 fl oz / 1,000 sq ft	4
	BRANDT 20-K *2-0-20*	3 fl oz / 1,000 sq ft	4
	BRANDT Seaweed Max	3 fl oz / 1,000 sq ft	4
	BRANDT MKS *0-0-4, 2.1% Mg, 3.2% S*	1 case/month	6

BRANDT Lawn Care Success Kits were developed exclusively for residential and commercial lawn professionals. Each kit contains a six month supply of proprietary BRANDT nutrient products developed to help establish and maintain healthy, vibrant grasses, especially during tough summer months.

The cornerstone of each kit is BRANDT Manni-Plex foliar nutrients. The proprietary technology maximizes nutrient absorption and efficiency. It is an excellent tool to prevent and correct turf nutrient deficiencies quickly and easily in-season, and helps turf vigor during periods of environmental stress.

Lawn Care Success Kit - 8 Month Program Application

Treats 5 acres (217,800 sq ft) for 8 months

Program includes humic acid, seaweed and a wetting agent while feeding both the plant and the soil.

Application Timing	Product	Application Rate	Cases
March	BRANDT Manni-Plex Total Turf *5-0-0, 1.2% Mg, 2.85% Fe, 0.45% Mn, 0.65% Zn*	3 fl oz / 1,000 sq ft	4
	BRANDT Foli-Cal *5-0-0, 10% Ca*	3 fl oz / 1,000 sq ft	3
	BRANDT Uptake Advanced *6% Humic acids derived from leonardite ore*	3 fl oz / 1,000 sq ft	1
April	BRANDT Manni-Plex Total Turf	3 fl oz / 1,000 sq ft	
	BRANDT Foli-Cal	3 fl oz / 1,000 sq ft	
May	BRANDT Parco Root XL *1.5% Mg, 4.0% S, 0.16% B, 3.5% Fe, 0.75% Mn, 0.003% Mo, 0.75% Zn*	3 fl oz / 1,000 sq ft	5
	BRANDT MKS *0-0-4, 2.1% Mg, 3.2% S*	3 fl oz / 1,000 sq ft	4
	BRANDT Converge SRN 18-3-6 *18-3-6, 0.05% Cu, 0.10% Fe, 0.05% Mn, 0.05% Zn*	3 fl oz / 1,000 sq ft	2
	For a non-phosphorus program, substitute with BRANDT Converge SRN 18-0-6 *18-0-6, 0.05% Cu, 0.10% Fe, 0.05% Mn, 0.05% Zn*	3 fl oz / 1,000 sq ft	2
June	BRANDT Agra Sol Micro Mix *5.0% Mg, 0.5% B, 1.5% Cu, 4.0% Fe, 4.0% Mn, 0.1% Mo, 1.5% Zn*	4 lb / ac	2 bags
	BRANDT 20-K *2-0-20*	3 fl oz / 1,000 sq ft	2
	BRANDT MKS	3 fl oz / 1,000 sq ft	
	BRANDT Converge SRN 30-0-0 *30-0-0*	3 fl oz / 1,000 sq ft	1
July	BRANDT Manni-Plex Total Turf	3 fl oz / 1,000 sq ft	
	BRANDT Parco Root XL	3 fl oz / 1,000 sq ft	
	BRANDT Foli-Cal	3 fl oz / 1,000 sq ft	
August	BRANDT Manni-Plex Total Turf	3 fl oz / 1,000 sq ft	
	BRANDT Parco Root XL	3 fl oz / 1,000 sq ft	
	BRANDT MKS	3 fl oz / 1,000 sq ft	
September	BRANDT Parco Root XL	3 fl oz / 1,000 sq ft	
	BRANDT MKS	3 fl oz / 1,000 sq ft	
	BRANDT Converge SRN 18-3-6	3 fl oz / 1,000 sq ft	
	For a non-phosphorus program, substitute with BRANDT Converge SRN 18-0-6	3 fl oz / 1,000 sq ft	
October	BRANDT MKS	3 fl oz / 1,000 sq ft	
	BRANDT 20-K	3 fl oz / 1,000 sq ft	
	BRANDT Parco Root XL	3 fl oz / 1,000 sq ft	

3 for 3 Success Kit - For 2x/Month Application

1 kit treats 3 acres for 3 months

Application Timing	Product	Application Rate	Cases
Spray 1 for month	BRANDT Liqui-Phi™ *0-0-25*	3 fl oz / 1,000 sq ft	4
	BRANDT Foli-Cal	3 fl oz / 1,000 sq ft	2
	BRANDT Manni-Plex Grow	3 fl oz / 1,000 sq ft	2
	BRANDT Parco Root XL	3 fl oz / 1,000 sq ft	2
	BRANDT Converge SRN 30-0-0	6 fl oz / 1,000 sq ft	4
Spray 2 for month	BRANDT Liqui-Phi	1.5 fl oz / 1,000 sq ft	
	BRANDT MKS	3 fl oz / 1,000 sq ft	3
	BRANDT Converge SRN 18-0-6	3 fl oz / 1,000 sq ft	2
	BRANDT 20-K	3 fl oz / 1,000 sq ft	2
	BRANDT Seaweed Max	1 case/month	2

Short Course Success Kit - For 2x/Month Application

1 kit treats 1.5 acres for 3 months

Application Timing	Product	Application Rate	Cases
Spray 1 for month	BRANDT Mega-Phi™ *2-0-16*	1.5 fl oz / 1,000 sq ft	1
	BRANDT Foli-Cal	3 fl oz / 1,000 sq ft	1
	BRANDT Manni-Plex Grow	3 fl oz / 1,000 sq ft	1
	BRANDT Parco Root XL	3 fl oz / 1,000 sq ft	1
	BRANDT Converge SRN 30-0-0	6 fl oz / 1,000 sq ft	2
Spray 2 for month	BRANDT Mega-Phi	1.5 fl oz / 1,000 sq ft	
	BRANDT MKS	2.5 gal/month	2
	BRANDT Converge SRN 18-0-6	3 fl oz / 1,000 sq ft	1
	BRANDT 20-K	3 fl oz / 1,000 sq ft	1
	BRANDT Seaweed Max	6 fl oz / 1,000 sq ft	1

Nematode Kit - For Monthly Application

1 kit controls nematodes for 8 months on 3 acres of greens

Application Timing	Product	Application Rate	Cases
March – November	Neo-Tec S.O. *70% sesame oil, 30% other ingredients, lecithin and water*	3 fl oz / 1,000 sq ft once a month	5
May – June	BRANDT Plant Start *27% liquid phosphorous fertilizer*	3 fl oz / 1,000 sq ft once a month	2
July – October	BRANDT Manni-Plex Total Turf *4-0-2, 0.5% Mg, 0.25% B, 0.5% Cu, 2% Fe, 0.5% Mn, 0.25% Mo*	3 fl oz / 1,000 sq ft once a month	4
	BRANDT Seaweed Max *25% Seaweed Extract derived from Ascophyllum nodosum*	3 fl oz / 1,000 sq ft once a month	4

Products may be applied every other week instead of monthly, just split application rate in half. One turn of irrigation head is necessary to remove NEO-TEC S.O. off blades of grass. If nematodes are present when you are starting the program, apply 6 fl oz/ 1,000 sq ft of NEO-TEC S.O. for the first two months, then apply at 3 fl oz/ 1,000 sq ft once a month for the remainder of the season. Do not use NEO-TEC S.O. with surfactants and watch the amount of water (rain, irrigation, spray volume). Too much water will void the NEO-TEC S.O. application.

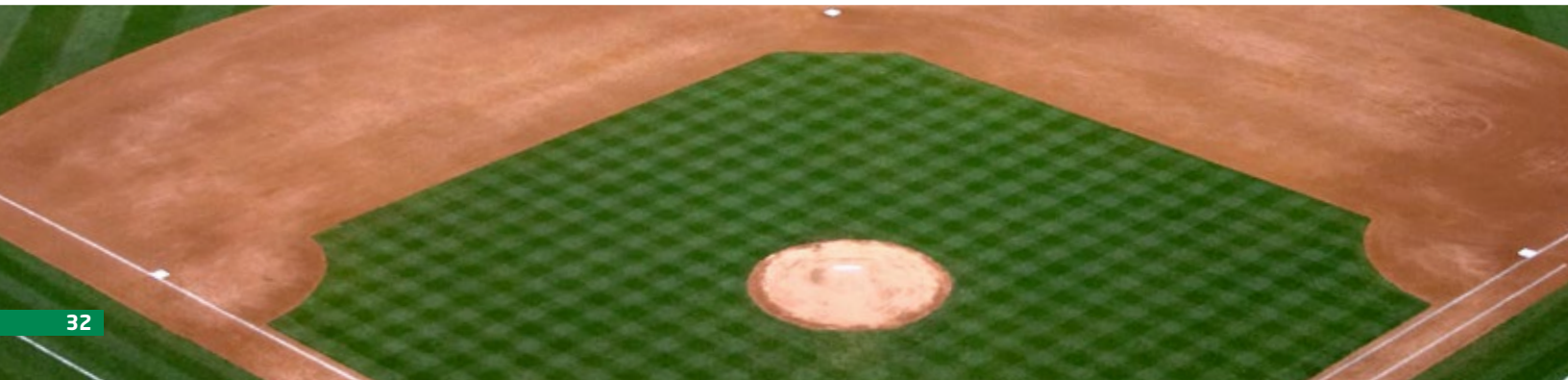
BRANDT Sports Turf Success Kit

Excellent nutrition program for stronger roots, better turf health and quicker recovery

Sports Turf Success Kit - For 2x/Month Application

March through October Program

Application Timing	Product	Application Rate	Cases
Early Start up Spray - March			
Spray 1 and 2 for the month	BRANDT Foli-Cal	2.5 gal/application	4
	BRANDT Manni-Plex Total Turf	2.5 gal/application	2
	BRANDT Parco Root XL	2.5 gal/application	4
For Months April, June and August			
Spray 1 of the month	BRANDT Converge SRN 18-0-6	2.5 gal/application	3
	BRANDT Foli-Cal	2.5 gal/application	
	BRANDT Mega-Phi	1.5 gal/application	4
	N-Boost	1 gal/application	3
Spray 2 for the month	BRANDT MKS	2.5 gal/application	2
	BRANDT Parco Root XL	2.5 gal/application	
	BRANDT Mega-Phi	1.5 gal/application	
	N-Boost	1 gal/application	
For Months May, July and September			
Spray 1 of the month	BRANDT Converge SRN 18-0-6	2.5 gal/application	3
	BRANDT Foli-Cal	2.5 gal/application	
	BRANDT Mega-Phi	1.5 gal/application	4
	N-Boost	1 gal/application	3
Spray 2 for the month	BRANDT 20-K	2.5 gal/application	2
	BRANDT Parco Root XL	2.5 gal/application	
	BRANDT Mega-Phi	1.5 gal/application	
	N-Boost	1 gal/application	
Season Close Up Spray - October			
Spray 1 and 2 for the month	BRANDT Manni-Plex Total Turf	2.5 gal/application	
	N-Boost	1 gal/application	



Fairway Nutrition Program

Keep fairways looking good with one of BRANDT's Fairway Nutrition programs. Each program provides a secondary and micronutrient package to maintain turf vigor and color on fairways, at a great value.

Product	Analysis	Application Rate
Option 1: Dry Soluble Powder/Liquid		
BRANDT Agra Sol Micro Mix	5.0% Mg, 0.5% B, 1.5% Cu, 4.0% Fe, 4.0% Mn, 0.1% Mo, 1.5% Zn	3 lbs/ac
BRANDT 20-K	2-0-20	1 gal/ac
Option 2: Dry Soluble Powder/Liquid		
BRANDT Agra Sol Turf Mix	4.0% Mg, 0.5% B, 2.0% Fe, 2.0% Mn, 0.5% Zn	3 lbs/ac
BRANDT MKS	0-0-4, 2.1% Mg, 3.2% S	1 gal/ac
Option 3: Liquid		
BRANDT Parco-Root XL	1.5% Mg, 4.0% S, 0.16% B, 3.5% Fe, 0.75% Mn, 0.003% Mo, 0.75% Zn	1 gal/ac
BRANDT 20-K	2-0-20	1 gal/ac

Dry Soluble Nutrients

BRANDT AGRA SOL DRY LIGNOSULFONATES

BRANDT AGRA SOL dry soluble powder chelates are an affordable way to supply micronutrients to plants and turf. They mix easily with water and can be applied alone, added to dry granular fertilizers or applied with non-phosphorus liquid fertilizers.

Liquid Nutrients

BRANDT MKS

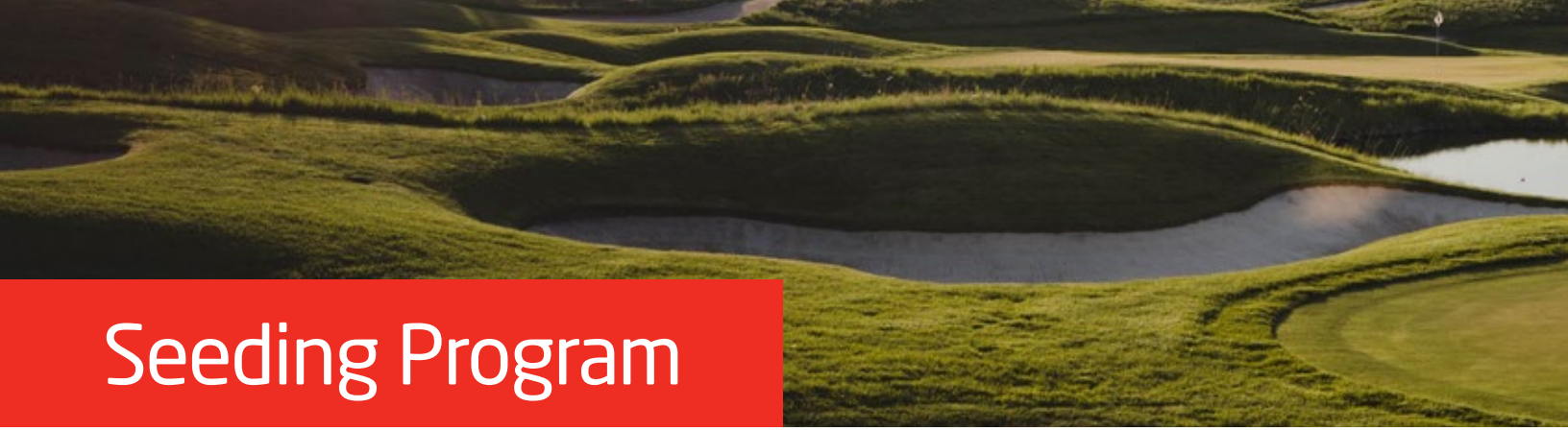
Specialty fertilizer that contains highly available Mg, K and S. Corrects nutrient deficiencies. Improves turf strength, vigor and color [by supplying Mg, which is essential to chlorophyll production].

BRANDT 20-K

20% liquid potassium fertilizer. Potassium promotes root growth and impacts plant response to stress.

BRANDT PARCO-ROOT XL

Multi-nutrient formulation is loaded with micronutrients. Builds turf strength and supports root growth. May be used as a foliar or soil application.



Seeding Program

BRANDT's Seeding Program makes fertilization a breeze from pre-planting to post-seeding. The carefully selected nutrition line up provides essential secondary and micronutrients, along with soluble forms of seaweed extract and humic acid. These help support germination, root development and turf vigor. Use this program to ensure great seeding results.

Application Timing	Product	Analysis	Application Rate
Pre-Seed/Pre-Plant Applications			
1x Pre-Seed Application	Foli-Cal	5-0-0, 10.0% Ca	3 fl oz / 1,000 sq ft
1x Pre-Plant Starter Application	BRANDT Uptake 12	0-0-3	3 fl oz / 1,000 sq ft
	BRANDT Plant Start	8-27-2	3 fl oz / 1,000 sq ft
Post-Seeding Applications			
Option 1: Liquid Foliar Program			
First 2 Weeks	BRANDT Plant Start	8-27-2	3 fl oz / 1,000 sq ft
Week 1 and 3	BRANDT Converge SRN 18-3-6	18-3-6, 0.05% Cu, 0.1% Fe, 0.05% Mn, 0.05% Zn	4.5 fl oz / 1,000 sq ft
Week 2 and 4	BRANDT 20-K	2-0-20	3 fl oz / 1,000 sq ft
	BRANDT Manni-Plex Total Turf	5-0-0, 1.2% Mg, 2.85% Fe, 0.45% Mn, 0.65% Zn	3 fl oz / 1,000 sq ft
	BRANDT Seaweed Max	25.0% Seaweed extract derived from *Ascophyllum nodosum*	3 fl oz / 1,000 sq ft
Option 2: Granular Program with Liquid Supplement			
First 2 Weeks	BRANDT Noculate 8-21-5	8-21-5, 1.0% Fe, 1.9% S	6 lb / 1,000 sq ft
Week 1 and 3	BRANDT Noculate 8-2-8	8-2-8, 0.5% Mg, 5.0% S, 1.0% Fe, 0.5% Mn	8 lb / 1,000 sq ft
	OR		
	BRANDT Noculate 8-3-17	8-3-17, 1.0% Mg, 6.0% S, 4.0% Fe, 3.1% Mn	4 lb / 1,000 sq ft
Week 2 and 4	BRANDT 20-K	2-0-20	3 fl oz / 1,000 sq ft
	BRANDT Manni-Plex Total Turf	5-0-0, 1.2% Mg, 2.85% Fe, 0.45% Mn, 0.65% Zn	3 fl oz / 1,000 sq ft

Grow-In Nutrition Program

In addition to BRANDT liquid products, granular applications of at least 1 lb. of N monthly are suggested. In most cases, a pre-plant application will not be necessary due to the strength of BRANDT products and the addition of the soil spray applications. Because of the efficient uptake of BRANDT foliar products, daytime irrigation can resume 2 hours after application. Do not start this program until seed is germinated.

Application Timing	Product	Analysis	Application Rate
Week 1			
Foliar Application	BRANDT Manni-Plex Total Turf	5-0-0, 1.2% Mg, 2.85% Fe, 0.45% Mn, 0.65% Zn	4 fl oz / 1,000 sq ft
	BRANDT Manni-Plex Mg	5-0-0, 4% Mg	4 fl oz / 1,000 sq ft
	BRANDT Converge SRN 30-0-0	30-0-0	4 fl oz / 1,000 sq ft
	BRANDT iHammer Advantage	5-0-1, 0.05% B, 0.75% Mn, 0.25% Mo, 0.75% Zn	3 fl oz / 1,000 sq ft
Week 2			
Foliar Application	BRANDT Foli-Cal	5-0-0, 10% Ca	4 fl oz / 1,000 sq ft
	BRANDT Manni-Plex Eagle	7-0-14, 0.5% Fe, 0.25% Mn	4 fl oz / 1,000 sq ft
	BRANDT In-Cyte	3-12-1 enriched with Seaweed Extract from *Ascophyllum nodosum*	4 fl oz / 1,000 sq ft
	BRANDT Mega-Phi	2-0-16	1.5 fl oz / 1,000 sq ft
Soil Application	BRANDT Parco Root XL	1.5% Mg, 4% S, 0.16% B, 3.5% Fe, 0.75% Mn, 0.003% Mo, 0.75% Zn	3 fl oz / 1,000 sq ft
	BRANDT MKS	0-0-4, 2.1% Mg, 3.2% S	3 fl oz / 1,000 sq ft
	BRANDT Uptake Advanced	Humic acid	2 fl oz / 1,000 sq ft
Week 3			
Foliar Application	BRANDT Foli-Cal	5-0-0, 10% Ca	4 fl oz / 1,000 sq ft
	BRANDT Manni-Plex Root Builder	3-0-0, 0.5% Mg, 0.2% B, 0.05% Cu, 0.9% Mn, 4.7% Zn	4 fl oz / 1,000 sq ft
	BRANDT Converge SRN 30-0-0	30-0-0	4 fl oz / 1,000 sq ft
	BRANDT iHammer Advantage	5-0-1, 0.05% B, 0.75% Mn, 0.25% Mo, 0.75% Zn	3 fl oz / 1,000 sq ft
Week 4			
Foliar Application	BRANDT Foli-Cal	5-0-0, 10% Ca	3 fl oz / 1,000 sq ft
	BRANDT Manni-Plex Mn	7-0-0, 5% Mn	3 fl oz / 1,000 sq ft
	BRANDT Manni-Plex Ultra Turf	4-0-2, 0.5% Mg, 0.25% B, 0.5% Cu, 2% Fe, 0.5% Mn, 0.25% Mo	3 fl oz / 1,000 sq ft
	BRANDT Mega-Phi	2-0-16	1.5 fl oz / 1,000 sq ft
Soil Application	BRANDT Parco Root XL	1.5% Mg, 4% S, 0.16% B, 3.5% Fe, 0.75% Mn, 0.003% Mo, 0.75% Zn	3 fl oz / 1,000 sq ft
	BRANDT MKS	0-0-4, 2.1% Mg, 3.2% S	3 fl oz / 1,000 sq ft
	BRANDT Uptake Advanced	Humic acid	2 fl oz / 1,000 sq ft
Every 3rd Spray	BRANDT Seaweed Max	25% Seaweed Extract derived from *Ascophyllum nodosum*	1.5 fl oz / 1,000 sq ft

BRANDT Product Compatibility Chart

- ■ Compatible
- ■ Jar test is recommended. Depends on water volume, concentrations, final solution pH, etc.
- ■ Not Compatible

	BRANDT Manni-Plex Foliar Nutrients													Other BRANDT Products											iHammer		
	BRANDT Foli-Cal	BRANDT Manni-Plex Cal-Mag	BRANDT Manni-Plex Cal Zn	BRANDT Manni-Plex Eagle	BRANDT Manni-Plex Grow	BRANDT Manni-Plex Mg	BRANDT Manni-Plex Mn	BRANDT Manni-Plex Root Builder	BRANDT Manni-Plex Si	BRANDT Manni-Plex Total Turf	BRANDT Manni-Plex Traffic	BRANDT Manni-Plex Ultra Turf	BRANDT Manni-Plex Zn	BRANDT Plant Start	BRANDT 30-K	BRANDT Converge SRN 18-3-6	BRANDT Liqui-Phi	BRANDT Mega-Phi	BRANDT Supreme Green	BRANDT Flash Dance	BRANDT In-Cyte	BRANDT Parco-Root XL	BRANDT Uptake 12	BRANDT Seaweed Max	Advantage	MegAlex	Upplause
BRANDT Manni-Plex Foliar Nutrients																											
BRANDT Foli-Cal	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Cal-Mag	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Cal Zn	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Eagle	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Grow	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Mg	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Mn	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Root Builder	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Si	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Total Turf	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Traffic	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Ultra Turf	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Manni-Plex Zn	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Other BRANDT Products																											
BRANDT Plant Start	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT 30-K	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Converge SRN 18-3-6	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Liqui-Phi	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Mega-Phi	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Supreme Green	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Flash Dance	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT In-Cyte	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Parco-Root XL	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Uptake 12	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT Seaweed Max	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BRANDT iHammer Products																											
Advantage	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MegAleX	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Upplause	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

BRANDT Liquid Nutrient Analysis Guide

Product	N	P	K	B	Ca	Cu	Fe	Mg	Mn	Mo	S	Zn
BRANDT Foli-Cal	5%				10%							
BRANDT Manni-Plex Cal Mag	7%				5.30%			2.60%				
BRANDT Manni-Plex Cal Zn	6%				6%							3%
BRANDT Manni-Plex Eagle	7%		14%				0.5%		0.25%			
BRANDT Manni-Plex Grow	12%		6%			0.25%	0.50%		0.25%			2%
BRANDT Manni-Plex Mg	5%							4%				
BRANDT Manni-Plex Mn	7%								5%			
BRANDT Manni-Plex Root Builder	3%			0.20%		0.05%		0.50%	0.90%			4.70%
BRANDT Manni-Plex Si							1%					
BRANDT Manni-Plex Total Turf	5%						2.85%	1.20%	0.45%			0.65%
BRANDT Manni-Plex Traffic			6%									
BRANDT Manni-Plex Ultra Turf	4%		2%	0.25%		0.50%	2%	0.50%	0.50%	0.25%		
BRANDT 20-K	2%		20%									
BRANDT 30-K			30%									
BRANDT Converge SRN 18-0-6	18%		6%			0.05%	0.10%		0.05%			0.05%
BRANDT Converge SRN 18-3-6	18%	3%	6%			0.05%	0.10%		0.05%			0.05%
BRANDT Converge SRN 30-0-0	30%											
BRANDT Flash Dance	1%						5%					
BRANDT In-Cyte	3%	12%	1%									
BRANDT MKS			4%					2.1%			3.2%	
BRANDT Plant Start	8%	27%	2%							0.001%		
BRANDT Parco-Root XL				0.16%			3.50%	1.50%	0.75%	0.003%	4%	0.75%
BRANDT Supreme Green	12%						5%	0.50%	1%		4%	
BRANDT Uptake 12			3%									

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