

## Manhattan II helps smooth out the roughs at Inverness

INVERNESS CLUB, TOLEDO — Superintendent Tom Walker chooses Manhattan II to overseed roughs at this prestigious club because of its wear resistance, quick establishment, dark green color and drought and disease tolerance. But Tom finds Manhattan II's big plus is *density*. Manhattan II actually produces more leaves per plant, an economy sometimes overlooked.

This increased basal tillering, coupled with Manhattan II's lower crown help 'heal' shallow divots by spreading laterally. This is why Manhattan II is used to overseed the range tees at Inverness, too.

Manhattan II was developed to take the abuses hard use areas demand, and look good while doing so. Give it a divot. Rough it up a bit. Manhattan II can take it. Just ask Tom Walker at Inverness Club.



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# Reroute roots and the ugly side of yo

## Introducing Typar® Biobarrier™ root control system.

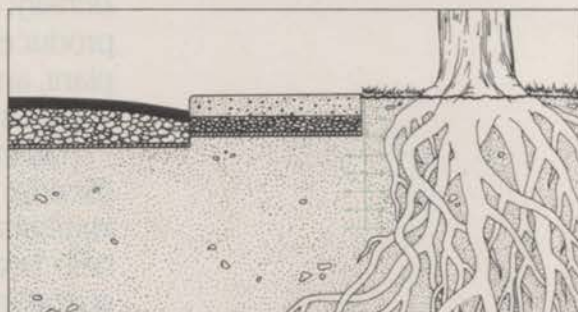
Give unsightly roots a new direction in life. Down. With new Biobarrier, the advanced root control system that sends your maintenance costs in the same direction.

Biobarrier combines two of the most effective, longest-lasting elements in root control. One is Treflan®, one of the most proven herbicides in the country, featuring new controlled-release pellet technology. The other is Typar® fabric, made with rugged polypropylene geotextile that's porous enough to let air and water through but holds the Treflan pellets in place.

Together, they reroute roots without harming your trees and plants. And preserve the beauty of your landscaped areas — golf greens, cart paths, sidewalks, curbs, walkways, parking lots, swimming pools, gardens and others — for years to come.

## Forget roots for 15 years.

Underground, Biobarrier sets up a solid rootproof zone that spans one to two inches on each side of the fabric. That's the Treflan controlled-release vapor zone. A zone so powerful, it repels roots at a controlled rate for 15 years or more.



**Top** Without Biobarrier, tree roots penetrate paved surface and aggregate base, causing unsightly cracking and heaving.

**Bottom** With Biobarrier, a protective zone of Treflan vapor reroutes roots downward without harming roots or tree.

## Forget extra labor.

Without Biobarrier, you're spending plenty of time and labor to trench, trim roots and replace damaged landscaping. But with Biobarrier, you'll only do the job once every 15 years—trim roots, replace damaged cart paths and install Biobarrier.

By rerouting roots downward, Biobarrier protects your golf greens, cart paths, tennis

# tame ur landscape.

courts, swimming pools and other recreational areas from unsightly roots. And helps keep your reputation in good standing among your customers.

## Easy on plants and landscaping.

Unlike other control methods, Biobarrier won't harm trees or nearby landscaping. It doesn't kill roots, it just reroutes them away from your golf, recreational or landscaped areas.

Treflan's active ingredient is biodegradable. It cannot be taken up by plant systems. And it stays put without leaching out to keep rerouting roots for 15 years or longer.

## Easy to install.

The Typar fabric in Biobarrier is flexible to make installation simple. Just install vertically along your golf, recreational or landscaped areas

where tree roots threaten to bring out the ugly side of your landscape.

## Call toll-free.

For the complete story on Biobarrier, see your Elanco representative. Or send for a free technical brochure from Elanco Products Company, Lilly Corporate Center, Dept. EM-455, Indianapolis, IN 46285, U.S.A. Or call toll-free: **1-800-352-6776**.

**TYPAR<sup>®</sup>**  
**Bio**  **barrier<sup>™</sup>**  
Root Control System

Typar Biobarrier is jointly marketed by Reemay, Inc., a member of The InterTech Group, Inc., and Elanco Products Company, a division of Eli Lilly and Company.

Treflan<sup>®</sup> — (trifluralin, Elanco)

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The Polo Trace Course in Florida involved 70 to 75 acres of hydroseeding. Bahiagrass and perennial ryegrasses were used in the roughs and bentgrass on the greens.

# A COMPATIBLE PRACTICE

Hydroseeding is becoming more popular with superintendents because it offers even, precise seed delivery and fast green-up.

by Robert Stinson, the Finn Corp.

**A**t a time when more people seek to participate in sports activities, golf occupies a unique place in the sporting world because of the challenges within the game that remain throughout the course of a player's life. You can play to improve a previous score on a certain course or hole, or to beat a single opponent or a group of opponents in a tournament.

Perhaps this is why the number of golfers grows annually in this country and around the globe. In 1988, more than 200 new golf courses were finished and another 300 under construction were due for completion in 1989. Until the year 2000, an average of 350 courses a year will be needed to meet the golfer demand.

More than 23,400,000 people golf in the United States, and the number is growing daily. Because that number is so high, maintaining present courses is as important as

building new ones.

Individual design is one of the challenging aspects of playing golf. Each course has unique features that enhance the skills required to play a good round. For example, the Indianwood Golf and Country Club course in Lake Orion, Mich., is built in the links style common to inland Scotland. Course superintendent Mark Jackson says the new course has the highest slope rating of any course in Michigan and, thus, is the most difficult to play.

Indianwood's links style of terrain made hydroseeding the most appropriate seeding method to use on the banks, hills, mounds and slopes. The mounds are very sandy and it was impossible to drive or work on them without damaging the seedbed preparation.

As with some other courses, the greens were planted by the two-step method. The seed was first applied

and then fiber mulch was sprayed on both as a seed cover and to hold moisture for faster growth.

## One-step seeding

The one-step method of applying seed, fertilizer and fiber mulch at the same time was used in the other hydroseeded areas. Jackson used the Finn HydroSeeder, a useful maintenance tool for touch-up, watering and re-fertilization as needed.

Today many courses are being built as parts of large residential developments. The Eagle Landing Country Club near Atlanta is the third such development with which course superintendent Dave Gardner has been associated.

While the seeding of the first two developments was subcontracted, a decision was made during construction of the Eagle Landing development to purchase a HydroSeeder for increased efficiency and flexibility in performing various tasks. According to Gardner, in addition to using the HydroSeeder during the actual course construction, it is used to vegetate roadsides, establish home lawns, water shrubs and trees and to establish or maintain turf as required in a large acreage development.

## Public course boom

In addition to the private courses under construction, many public courses are being built. Many contractors new to course construction have become involved because of existing opportunities.

Steve Turner of Evergreen Lawn Care in Bowling Green, Ky., was still relatively new to hydroseeding when





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he began to work on the Hartland Municipal Golf Course, using his newly-acquired HydroSeeder. Hartland is a centerpiece development for the Bowling Green community and will include a new convention center and upscale private homes within and around the public course.

Each of the greens at Hartland was constructed to be approximately 8,500 square feet. The bentgrass seed was extremely small; Turner did not see how a mechanical seeder could have been calibrated to accurately seed at the 14 pounds-per-green rate.

### Benefits noted

Turner employed a HydroSeeder with one 800-gallon tankload of seed and water with a mulch tracer to do each green. By hydroseeding the greens, he was able to do the job without introducing any foreign seed material.

In the process of doing the course, Turner discovered a number of the

benefits of hydroseeding. He was able to do a more precise job in applying material around cart paths and other obstructions with minimal clean up. His labor, as opposed to other seeding and mulching methods, was reduced significantly.

Turner now "loves the hydroseeding process" and will be seeking to do more golf courses in the future.

Golf course designers and construction personnel in the United States are renowned for their expertise and are now doing projects throughout the world. An example is the Golf Course Barbaroux in Brignoles, a Pete Dye-designed private membership course in the south of France.

John Alford, a construction superintendent on a number of Dye courses in the southeastern U.S., headed the construction team at Barbaroux.

One of the important tools that Alford wanted for the job in France was

a HydroSeeder, a machine that he had used on each of his previous courses. John liked the machine because of the ease with which the job could be done.

### No washout worry

"Once the ground has been prepared, you can do the work and not worry. It will be stabilized and you should not have nearly as much concern about washout," says Alford.

The French workers were also impressed with the machine, calling it "the elephant" due to its appearance and work capacity.

The HydroSeeder remains at the course, filled with water as a member of the Barbaroux Volunteer Fire Department, since the terrain of the area dictates that larger fire-fighting tanks would not be practical.

Southern Hydro Turf, Inc., of West Palm Beach, Fla., has done the seeding for many courses. They are working on the Polo Trace course, which



In addition to the playing surface, many areas—such as cart paths—require continuous management to maintain the desired condition. Using a tower gun or remote hose method of hydro-seeding makes it easy.

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*Hydroseeded greens can be playable in as few as 60 days.*

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will involve 70 to 75 acres of hydroseeding. Argentine bahia and perennial ryegrasses are being used in the roughs and bentgrass will be used on the greens.

Southern Hydro Turf's Terry Wilson has reported that greens on earlier such projects were playable in as few as 60 days, an important consideration with the growing use of established courses, which need constant maintenance.

### Touching up areas

In addition to the playing surface, many areas—such as cart paths—require a continuous program to maintain the desired condition. A tower gun or remote hose method of hydroseed application makes it very practical to reseed or touch-up all areas during the growing season.

Throughout all phases of golf course construction and maintenance, a hydroseeding is a most valuable asset for efficient landscape management. In addition to the obvious benefits of lead time and effort required for a project, the improved playing surface and aesthetic quality of the surroundings add significantly to the total enjoyment of a round of golf. **LM**





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Many landscapers are planning to cash in on the nightlighting market, which is expected to grow significantly.

## BY THE LIGHT

Landscapers on the cutting edge of the industry are beginning to offer nightlighting installation as a viable add-on service. Golf course superintendents and park managers are also taking advantage of the trend toward 24-hour beauty.

*by Jerry Roche, executive editor*

Using "the light...of the silvery moon" to illuminate landscapes sometimes just isn't good enough.

For stunning, you can't beat a well-lit landscape at night. For secure, you might consider installing an intruder alarm system—but nightlighting can help. For safe, there's nothing like having a well-illuminated driveway and sidewalk.

These, then, are the main reasons to sell nightlighting systems to landscape clients—whether you're a golf course superintendent looking to spruce up a clubhouse area, a contractor looking to make a little extra cash on your next residential installation, or a park superintendent looking to minimize vandalism.

The trend toward night-lit land-

scapes has captured the fancy of homeowners and facility managers in the extreme South and Northeast. If lighting follows other landscape trends, it will soon be popular from sea to shining sea.

### Lighting boom

"There's a tremendous excitement for nightlighting going on throughout the country," notes Larry Powers, president of Genlyte, Inc., Littlestown, Pa. "There's a big market for high-end residences, hotels, restaurants and all types of retail establishments, particularly stand-alone establishments. We see a real explosion in the coming years.

"I see a tremendous opportunity for a contractor. In many areas of the country, they would have a tremen-

dous surge of business. We think it can be very profitable, too. One of our distributors in northern New Jersey says that they have never sold a landscape lighting job under \$1,500."

Landscape lighting, a \$120 million a year business at the wholesale level, is projected to grow 10 to 15 percent per year over the next five years.

"This is an extremely hot area now," agrees Rick Wiedemer of Hinckley Lighting, Cleveland, Ohio. "People are pouring thousands of dollars into their landscapes. But you can't see the expensive landscaping unless you light it."

### The art as science

Good landscape lighting is as much art as science. Few hard-and-fast rules apply, but it employs certain funda-