Making the Best Even Better

**Effect of Yellow Jacket with DormBreaker** on Turfgrass Seed Germination and Establishment.

An intensive trial was conducted at Barenbrug USA’s Research Center in Albany, Oregon. Several grasses were coated with Yellow Jacket in combination with the newest ingredient, DormBreaker. The unique DormBreaker technology exhibits impressive effects on improving germination and establishment. Graphs 5 and 6 below show the establishment index of coated versus uncoated bermudagrass and Kentucky bluegrass. The coated seed in both trials exhibited much better establishment than the uncoated seed.

- Less water needed for establishment (30 percent less)
- Faster and improved establishment
- Better turf quality
- Coating enhances uniform seeding
- Coated seed is heavier improving... adds additional insurance for successful establishment
- Proven performance even in the most demanding applications

**AVAILBLE SEED WITH YELLOW JACKET**

This season at Kettle Hills we have removed trees from the golf course. We used RPR with Yellow Jacket to re-establish these areas and found the seed used less water and germinated faster. Because of the fast germination and establishment of RPR with Yellow Jacket it was able to choke out weeds and provide a superior stand of turf. Because of these characteristics RPR with Yellow Jacket is our new favorite seed.

- Jeremy Seiler (Left) Superintendent
- Lee Suwakski (Right), Assistant Superintendent

**Better Turf With Less Water**

**BENEFITS OF YELLOW JACKET ENHANCED SEED COATING**

- Less water needed for establishment (30 percent less)
- Faster and improved establishment
- Better turf quality
- Coating enhances uniform seeding
- Coated seed is heavier improving... adds additional insurance for successful establishment
- Proven performance even in the most demanding applications

**AVAILABLE SEED WITH YELLOW JACKET**

- Water Saver® Pro - Elite tall fescue blend
- Turf Blue™ blends - Elite bluegrass blends
- Bentgrass - Tee-2-Green and Barenbrug varieties
- Bermudagrass comes standard with Yellow Jacket
- RPR® - Regenerating Perennial Ryegrass
- Fine fescue
- Perennial ryegrass
- Turf Saver RTF - Rhizomatous Tall fescue

**DormBreaker is a unique combination of proprietary products that help break seed dormancy.** It has been proven through Barenbrug’s research both in Australia and the USA that DormBreaker and Zeba are technologies that can be used in combination in the Yellow Jacket seed coating process to provide unparalleled advantages in the turf seed industry.

**Establishment Index**

- Coated vs uncoated bermudagrass establishment index
- Coated vs uncoated Kentucky bluegrass establishment index

**Availability: Barenbrug USA’s Research Center in Albany, Oregon.**

**90 80 70 60 50 40 30 20 10 0**

**Graph 5**

**Graph 6**

**Establishment Index**

- Coated vs uncoated bermudagrass establishment index
- Coated vs uncoated Kentucky bluegrass establishment index

**28 days after seeding**

**DormBreaker and Zeba are technologies that can be used in combination in the Yellow Jacket seed coating process to provide unparalleled advantages in the turf seed industry.**


**Establishment Of Coated vs. Uncoated Seed**

North Carolina State University

<table>
<thead>
<tr>
<th>TF/KBG mix</th>
<th>Kentucky Turf Saver RTF</th>
<th>Perennial Creeping Bluegrass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coated</td>
<td>87% Ground cover</td>
<td>88% Ground cover</td>
</tr>
<tr>
<td>Uncouated</td>
<td>83% Ground cover</td>
<td>86% Ground cover</td>
</tr>
</tbody>
</table>

- Coating treatments improved disease ratings when averaged over two summer ratings dates. Coating treatments significantly improved turfgrass quality when averaged over seven rating dates.
- Coating treatments improved disease ratings when averaged over two summer ratings dates. Coating treatments significantly improved turfgrass quality when averaged over seven rating dates.

**THE PROOF IS IN THE COATING**

- Fungicide Stability On Coated Seed

  - The Ohio State University

  - Graph 1: Coating treatments significantly improved turfgrass quality when averaged over seven rating dates.

**WHAT IS ENHANCED SEED COATING?**

Barenbrug, recognized as the world leader in innovative grass seed coatings, includes the utilization of a worldwide network of research stations to create coatings that enhance seed performance and turf characteristics.

Barenbrug currently markets proprietary coated products in the United States as well as operating coating facilities in Argentina, Australia, China and New Zealand.

Yellow Jacket®, Barenbrug’s proprietary seed coating technology, utilizes Zeba® super absorbent technology to create a coating that can hold up to 600 times its own weight in water. Research trials at the University of New Mexico demonstrate that seed coated with Yellow Jacket established faster and required less water. These results are critical as water continues to become a precious global commodity. Yellow Jacket simultaneously helps seed thrive while conserving water.

Besides the Zeba technology, Yellow Jacket also includes Dromedar® technology, developed by Barenbrug in Australia, greatly boosts in quickly breaking seed dormancy.

**UNIQUE COATING WITH OUTSTANDING PERFORMANCE**

Numerous independent university tests have proven grass seed enhanced with Yellow Jacket technology greatly outperforms raw seed. New, after several years on the market, Yellow Jacket has proven itself highly enabling stability for our customers in some of the most demanding applications. Yellow Jacket can be found in all major cool and warm season grass species in seeding tall fescue, perennial ryegrass, annual ryegrass, bentgrass, Kikuyu, Bahigra and Bermudagrass.

The image to the right shows the difference between a Yellow Jacket coated seed left and an uncoated seed right. The Yellow Jacket coating holds up to the components to help improve germination and turfgrass establishment.

**Barenbrug**

The Ohio State University conducted trials with multiple grass seed coatings. Studies showed that Yellow Jacket provided multiple advantages, even for fast establishing grasses like perennial ryegrass and turf type annual ryegrass. Yellow Jacket coated seed established faster and required less water. These results are critical as water continues to become a precious global commodity. Yellow Jacket simultaneously helps seed thrive while conserving water. Besides the Zeba technology, Yellow Jacket also includes Dromedar® technology, developed by Barenbrug in Australia, greatly assists in quickly breaking seed dormancy.

**WHAT IS ENHANCED SEED COATING?**

- Coating treatments improved disease ratings when averaged over two summer ratings dates.
- Coating treatments improved disease ratings when averaged over two summer ratings dates.

**THE PROOF IS IN THE COATING**

- Fungicide Stability On Coated Seed

  - The Ohio State University

  - Graph 1: Coating treatments significantly improved turfgrass quality when averaged over seven rating dates.

**WHAT IS ENHANCED SEED COATING?**

Barenbrug, recognized as the world leader in innovative grass seed coatings, includes the utilization of a worldwide network of research stations to create coatings that enhance seed performance and turf characteristics.

Barenbrug currently markets proprietary coated products in the United States as well as operating coating facilities in Argentina, Australia, China and New Zealand.

Yellow Jacket®, Barenbrug’s proprietary seed coating technology, utilizes Zeba® super absorbent technology to create a coating that can hold up to 600 times its own weight in water. Research trials at the University of New Mexico demonstrate that seed coated with Yellow Jacket established faster and required less water. These results are critical as water continues to become a precious global commodity. Yellow Jacket simultaneously helps seed thrive while conserving water.

Besides the Zeba technology, Yellow Jacket also includes Dromedar® technology, developed by Barenbrug in Australia, greatly boosts in quickly breaking seed dormancy.

**UNIQUE COATING WITH OUTSTANDING PERFORMANCE**

Numerous independent university tests have proven grass seed enhanced with Yellow Jacket technology greatly outperforms raw seed. New, after several years on the market, Yellow Jacket has proven itself highly enabling stability for our customers in some of the most demanding applications. Yellow Jacket can be found in all major cool and warm season grass species in seeding tall fescue, perennial ryegrass, annual ryegrass, bentgrass, Kikuyu, Bahigra and Bermudagrass.

The image to the right shows the difference between a Yellow Jacket coated seed left and an uncoated seed right. The Yellow Jacket coating holds up to the components to help improve germination and turfgrass establishment.
**BENEFITS OF YELLOW JACKET ENHANCED SEED COATING**

- Less water needed for establishment (50 percent less)
- Faster and improved establishment
- Better turf quality
- Coating enhances uniform seeding
- Coated seed is heavier improving even seed germination
- Coating can add a level of insurance for successful establishment
- Proven performance even in the most demanding applications

**AVAILABLE SEED WITH YELLOW JACKET**

- Water Saver® Pro - Elite tall fescue blend
- turfBlue® blends - Elite bluegrass blends
- Bentgrass - Tee-2-Green and Barenbrug varieties
- Bermudagrass comes standard with Yellow Jacket RPR® - Regenerating Perennial Ryegrass
- Fine fescue
- Perennial ryegrass
- Turf Saver RTF - Rhizomatous Tall fescue

*Available for purchase in the USA and Canada.*

---

**Great in Grass®**

**800.547.4101 • www.barusa.com**

© 2011 BARENBRUG USA

Great in Grass!®

Distributed by:...
Effect of Yellow Jacket with DormBreaker® on Turfgrass Seed Germination and Establishment.

An intensive trial was conducted at Barenbrug’s Research Center in Albany, Oregon. Several grasses were coated with Yellow Jacket in combination with the newest ingredient, DormBreaker. The unique DormBreaker technology exhibits impressive effects on improving germination and establishment. Graphs 5 and 6 below show the establishment index of coated versus uncoated bermudagrass and Kentucky bluegrass. The coated seed in both trials exhibited much better establishment than the uncoated seed.

DormBreaker is a unique combination of proprietary products that help break seed dormancy. It has been proven through Barenbrug’s research both in Australia and the USA that DormBreaker and Zeba are technologies that can be used in combination in the Yellow Jacket seed coating process to provide unparalleled advantages in the turf seed industry.

**AVAILABLE SEED WITH YELLOW JACKET**

This season at Kettle Hills we have removed trees from the golf course. We used RPR with Yellow Jacket to re-establish these areas and found the seed used less water and germinated/established faster. We also found that because of the fast germination/establishment of RPR with Yellow Jacket it was able to choke out weeds and provide a superior stand of turf. Because of these characteristics RPR with Yellow Jacket is our new favorite seed.

- Jeremy Seiler (Left) Superintendent and Lee Suwakski (Right), Assistant Superintendent

**Better Turf With Less Water**

- Less water needed for establishment (30 percent less)
- Faster and improved establishment
- Better turf quality
- Coating enhances uniform seeding
- Coated seed is heavier improving... Coating adds additional insurance for successful establishment
- Proven performance even in the most demanding applications

**BENEFITS OF YELLOW JACKET ENHANCED SEED COATING**

- Water Saver
- Pro - Elite tall fescue blend
- Turf Blue® blends - Elite bluegrass blends
- Bentgrass - Tee-2-Green and Barenbrug varieties
- Bermuda comes standard with Yellow Jacket
- RPR® - Regenerating Perennial Ryegrass
- Fine fescue
- Perennial ryegrass
- Turf Saver RTF - Rhizomatous Tall fescue