

BREAKOUT

TURF ITALIAN RYEGRASS

WITH STT™

SMOOTH TRANSITION TECHNOLOGY

STT

TM



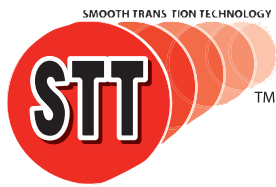
- ▶ **Smooth Transition Technology**
Quick germination and won't persist into summer
- ▶ **Excellent Turf Quality**
Blends well with other grasses
- ▶ **Dark Green Color**
Ideal for all over-seeding needs
- ▶ **High Density Turf**
Withstands wear and daily use
- ▶ **Fine Leaf Texture**
Great aesthetics and playability

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BREAKOUT WITH STT™

SMOOTH TRANSITION TECHNOLOGY



BREAKOUT with STT is a revolutionary new Italian ryegrass for use in overseeding warm-season grass applications or for quick ground cover on cool-season turf. As with most Italian ryegrass varieties BREAKOUT with STT establishes very quickly, but unlike all Italian ryegrasses BREAKOUT with STT has the fine leaf blade and texture that is more similar to perennial ryegrass. This unique trait gives BREAKOUT with STT superior turf quality.

But what makes BREAKOUT with STT quite different from all other overseeding turf grasses is it's ability to transition smoothly and predictably. While most perennial ryegrass varieties hold on too long in the summer, BREAKOUT with STT transitions out smoothly to allow the warm-season base to recuperate and not have to compete with the overseeded grass. Competition with cool-season grasses can be a costly problem leading to increased chemical use and the need to reseed your warm season base. So if you want the speed and transition ability of Italian with the look of perennial choose BREAKOUT with STT.

PREDICTABLE TRANSITION

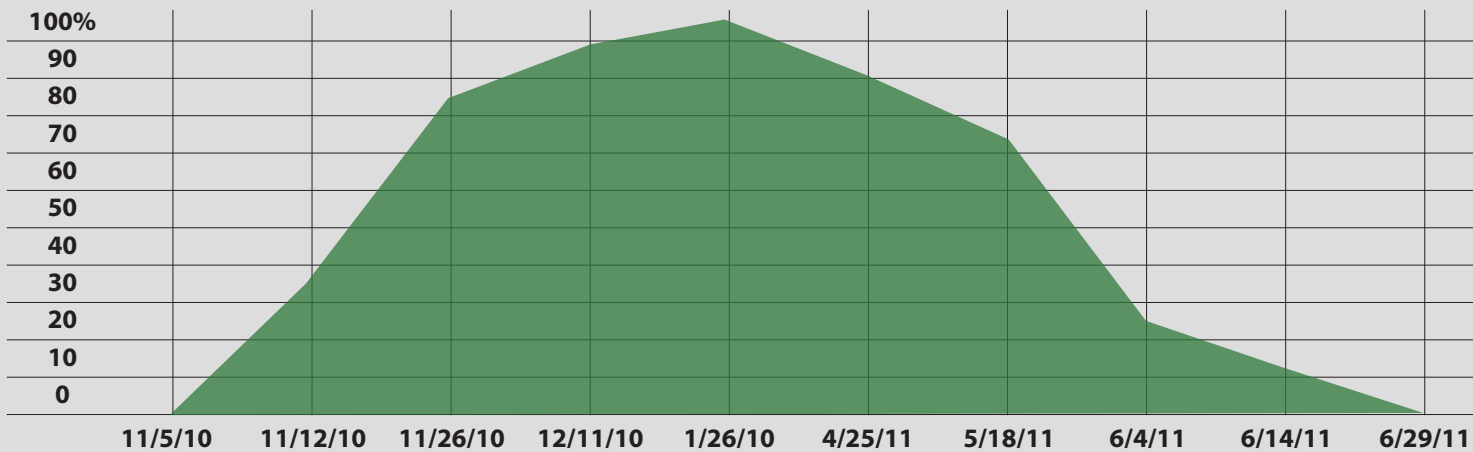
KNOW WHAT TO EXPECT WHEN YOU PLANT

Transition is the most crucial time for an overseeded turf application. Both going into and coming out of the cooler winter months are very sensitive times for your warm-season grass base. If the overseeded varieties don't come on soon enough your left with brown, dormant grass that is susceptible to damage if played on. Or you run the risk of having to shut down your turf which costs you in play time and revenue. BREAKOUT with STT germinates FAST so that you can have green ground cover and a playable surface as soon as possible.

Equally, if not more important, is the transition from the overseeded grass back to your warm-season base. If the overseeded grass lingers too long it can cause serious damage to the warm-season base. Most perennial ryegrass varieties are bred to be more drought tolerant and travel farther south. While this is great for permanent cool-season applications it can be a serious detriment to your warm-season base. The two charts below show the predictable transition curve for BREAKOUT with STT and also a comparison showing the tremendous difference between the transition ability of BREAKOUT with STT compared to a annual/perennial mix and straight perennial ryegrass varieties.

BREAKOUT STT TRANSITION CURVE

% Breakout Overseed Plot Cover Throughout Year



2010/2011 University of Arizona Low Maintenance Overseed Trial.

% Cool Season Grass (CSG) vs. % Bermudagrass at 3 different Dates After Planting

	196 DAP (April 30)		210 DAP (May 13)		224 DAP (May 27)	
	% CSG	% Bermuda	% CSG	% Bermuda	% CSG	% Bermuda
BREAKOUT STT	82.5	17.5	47.5	52.5	17.5	82.5
SHOWBOAT (70%Lp/30%Lm)	83.7	16.2	41.2	58.7	26.2	73.7
PANGAEA GLR (Lp)	97.5	2.5	80.0	20.0	47.5	52.5
BLAZER 4 (Lp)	90.0	10.0	77.5	22.5	47.5	52.5

2011/2012 Winter Overseeding Trial, North Carolina State University.

HIGH TURF QUALITY

NOT JUST ITALIAN RYEGRASS

BREAKOUT with STT is also a beautiful turfgrass. Darker than most other Italian ryegrass varieties BREAKOUT with STT also matches up better with warm-season grass bases. It's fine leaf texture and increased density allow it to blend better with warm-season species.

While most Italian ryegrass varieties are almost yellow in color BREAKOUT with STT has a dark green color. At the NC State trials a color spectrometer was used to indicate a specific color value to each of the varieties in the trial. The color swatches below show the difference in color between BREAKOUT with STT and other commonly used annual ryegrass varieties. You can also see in the photo below how much more yellow Gulf is than BREAKOUT with STT. But it's not just the color - notice how much more open the Gulf turf is and how much denser the BREAKOUT with STT plot remains even under close mowing.

The University of Arizona trials (charts at right) also showed how much better the color and texture BREAKOUT with STT exhibits compared to other commonly used varieties.

BREAKOUT with STT (right) exhibits a much darker green color and also a much finer blade texture and better density than Gulf (left).



BREAKOUT with STT is ideal for golf applications. It's fine leaf texture and density match that of warm season bases much better than other turfgrass varieties. These traits combined with smooth, predictable transition allow for use on tees and fairways.

MEAN TURFGRASS TEXTURE OF OVERSEEDED TURF

	11/26/10	12/11/10	1/26/10	3/5/11	4/25/11
BREAKOUT STT	6.0	6.8	7.0	6.3	6.3
GREENLINKS	4.8	5.8	6.0	5.3	5.5
NUSPRINT	5.3	5.8	6.3	5.3	5.5
GULF	4.0	4.8	4.3	4.0	4.5

MEAN TURFGRASS COLOR OF OVERSEEDED TURF

	11/26/10	12/11/10	1/26/10	3/5/11	4/25/11
BREAKOUT STT	6.5	6.5	6.8	6.8	6.0
GREENLINKS	5.0	6.3	6.0	6.0	5.0
NUSPRINT	4.8	6.3	6.3	6.0	5.3
GULF	4.3	4.8	5.0	4.8	5.0

2010/2011 University of Arizona Low Maintenance Overseed Trial.

BREAKOUT WITH STT

PANTERRA

GULF

SOS-400

BREAKOUT WITH STT MANAGEMENT

SEEDING AND OVERSEEDING Breakout readily establishes on loosened bare soil or after verticutting existing turf for renovation and overseeding. For typical new seeding applications, apply at a rate of 7.5-15 lbs per 1000 sq ft. Periodic reseeding at 5-10 lbs per 1000 sq ft maintains density for visual appearance and durability. For overseeding dormant warm season grasses, a rate of 10-20 lbs per 1000 sq ft is suggested for golf course fairways.



MAINTENANCE Breakout will form a tight knit turf under a broad range of soil types and environmental conditions, from full sun to medium shade. It will mow cleanly at heights of 1/2" and above. Due to its increased shoot density and more compact growth profile, Breakout can be maintained at fairway levels if adequate fertility and higher maintenance practices are observed.



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Sheltered by Mt. Hood, the Willamette Valley enjoys mellow sunshine, gentle rain and mild winters. It's the grass seed production capital of the world.

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The grain elevator at Pratum Co-op has been a Willamette Valley landmark since 1946. For 35 years, the co-op handled public grass seed varieties, adding private varieties in the 1980's. Mountain View Seeds, Ltd., a subsidiary of Pratum Co-op, was created to manage mounting demand of grass seed production.

At Mountain View Seeds, we rely on experience and people. We know grass seed research, production and processing — after all, we have more than 50 years of experience.

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