

ProSementis



Lawn Seeds
Turf
Care products

Catalogue 2023 / 2024 /





ProSementis - ready for the future

Since the creation of our last catalogue three years ago, a lot has changed. On the one hand, the rising prices of raw materials, the demand and availability, but also the requirements for lawn seed.

On the other hand, we have set the internal course for a successful future and expanded our management.

In addition to the existing management, consisting of the two owners Sabine Braitmaier and Martin Herrmann, Armin Langenmair joins the company as managing director.

Armin Langenmair is no stranger to the turf sector and therefore not only brings new ideas and approaches, but also a wealth of experience to the company. Originally from the agricultural technology sector, Armin Langenmair switched to the wheel industry back in 2017. Due to his activity as a specialist for the mechanical maintenance of lawns, he is very familiar with our product portfolio.

Already in our last catalogue we dedicated our foreword to the "new challenges". Compared to then, we are concerned with the topics of heat, drought and disease stress even more intense. As a result, the demand for drought- and heat-tolerant grass varieties or mixtures increased many times over. Grasses, which The grasses that were previously rarely found in seed mixtures, such as tall fescue (*Festuca arundinacea*), are literally experiencing a renaissance. Even in amateur lawn sports, it is becoming more and more popular, as watering lawns is becoming a steadily increasing problem.

However, we have to start the topic elsewhere. Due to ongoing climate change and the resulting weather extremes, more and more is being demanded of the lawn. Often, the problems with heat and dry periods are only summer is suspected. However, this overlooks the fact that the lawn may have already had to endure a similar stress period in spring.

An increasingly common problem is the so-called spring dryness.

Increasingly long periods of drought during the growth and establishment phase of the lawn disrupt or interrupt these. This can lead to

This can lead to the plant not being able to develop properly and root growth also being too low. If this happens, the plant will already be handicapped.

in the further fight against drought and heat in the course of the year. If a longer period of drought and/or heat is added to this in the summer, it is it is not surprising that the lawn capitulates at some point and the lush green changes to an unimpressive grey-brown.

All the more important in this case are lawn mixtures that are better equipped to cope with dry periods thanks to drought-tolerant varieties. Here

Tetraploid ryegrass varieties are then increasingly used, which are characterised by a higher drought tolerance, but also by faster germination/establishment and regeneration.

This is particularly beneficial to the plant in terms of spring dryness.

In addition, there is our new bunchgrass variety MATCH PLAY, which is also characterised by good heat and disease tolerance, as well as optimal density. shines. And this without heavy felting and without particularly high maintenance.

ProSementis is your partner for the highest quality and selection in the field of turf seed mixtures. From the turf producer, to the professional greenkeeper in the Bundesliga stadium or on the golf course and sports field, to the sports and horticultural sector, we offer you the optimal mixtures for your specific requirements.

Sabine Braitmaier, Martin Herrmann, Armin Langenmair

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Delivery, Prices, Validity, Terms of Payment

Our prices are net prices and are always "ex works" (EXW Kusterdingen, Germany, Incoterms 2010). For seed orders from a goods weight of 200 kilograms, we deliver them free of charge to the purchaser within mainland Germany and Austria. VAT will be added to the invoice at the respective statutory rate. Unless otherwise agreed, the purchase price is due and payable without any deduction within 10 days of receipt of the invoice or delivery of the goods, whichever occurs first.

All older price lists are no longer valid. The offers in this catalogue are subject to change and errors excepted. We reserve the right to replace varieties with equivalent or better ones and to change the mixture compositions.

We would like to point out that we execute orders exclusively under the validity of our General Terms and Conditions of Sale and Delivery, see homepage <http://www.prosementis.de/agb>.

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Golf turf

Althaus Golf Design

007 DSB

Use	Golf Greens, Putting Greens	007 DSB is a new variety bred at Rutgers University.
Site requirements	For all temperate Locations	This new breeding was done on a genetic diversity of 24 plants, among which were also the variety L-93 and Southshore are represented.
Load capacity	High	
Maintenance effort	Very high	We have decided to use the new varieties because of their excellent disease tolerance, especially against dollar spot and snow mould.
Cutting height	2.8 - 4 mm	decided on this variety.
Nutrient requirements	Establishment: medium Maintenance: low	
Seeding rate	New sowing: 8 g/m ² Reseeding: approx. 4 g/m ²	007 DSB is not so dark compared to other new varieties and therefore suits many medium green varieties.
Packaging	11,35 kg container	Varieties.
Agrostis stolonifera (wattle-grass)		In the USA variety trials, this variety has already been evaluated since 2003 (see www.ntep.org).



Luminary

Use	Golf Greens, Putting Greens	The bunchgrass variety LUMINARY, which has only been included in the EU variety list since 2018, is exclusively in our distribution and has since been sown on many golf courses in Germany. LUMINARY has
Site requirements	For all temperate Locations	Highest ratings in the American variety trials for turf quality and very good disease tolerances e.g. towards dollar spot and snow mould.
Load capacity	High	
Maintenance effort	Very high	LUMINARY sorghum is the most sought-after variety in southern Scandinavia. This variety is also excellent for the cooler regions.
Cutting height	2.8 - 4 mm	
Nutrient requirements	Establishment: medium Maintenance: low	
Seeding rate	New sowing: 8 g/m ² Reseeding: approx. 4 g/m ²	
Packaging	11,35 kg container	The particularly noteworthy properties are: rapid greening in spring, very dense growth, regenerated
Agrostis stolonifera (wattle-grass)		very fast at pitch marks, has a very good winter colour and the leaf colour is medium green.





Match Play

Use	Golf Greens, Putting Greens	<p>The new <i>Agrostis stolonifera</i> variety MATCH PLAY is the result of years of breeding to improve stress tolerance. in heat and disease, with extremes in colour and felting purposefully avoided. It is a versatile and compatible braided bunchgrass, so the variety is well suited for overseeding existing greens. One of the best varieties in the new entries of the Scandinavian variety trials in Norway (www.scanturf.org)</p> <ul style="list-style-type: none"> ► Quick greening in spring, therefore also well suited for cool regions ► Heat tolerant ► Good disease tolerance to pink snow mould, rhizoctonia and dollar Spot ► Medium green colour ► Optimum density without heavy felting and without increased maintenance effort ► Fast scar closure ► Very good winter colour ► Slightly shade tolerant
Site requirements	For all temperate Locations	
Load capacity	High	
Maintenance effort	Medium to high	
Cutting height	2.8 - 4 mm	
Nutrient requirements	Establishment: medium Maintenance: low	
Seeding rate	New sowing: 8 g/m ² Reseeding: approx. 4 g/m ²	
Packaging	11,35 kg container	
Agrostis stolonifera (wattle-grass)		



777

Use	Golf Greens, Putting Greens	<p>777 is the product of twenty years of research and development by Seed Search Oregon and Rutgers University. (USA). The variety has proven to be particularly efficient under stress and resilience.</p> <p>777 forms a green lawn in an attractive medium green colour that retains its colour even in cool temperatures, as well as an has high heat resistance in summer and high disease tolerance. 777 can be perfectly used as a pure seed or as a mixing partner with other <i>Agrostis</i> varieties. It is suitable for new sowing as well as for reseeding.</p> <p>777 tolerates low cutting heights while still maintaining its density and high load capacity. Further advantages are the increased tolerance compared to <i>Poa annua</i>, the uniform sward and the reduced use of fertilisers and pesticides.</p>
Site requirements	For all temperate Locations	
Load capacity	High	
Maintenance effort	Very high	
Cutting height	2.8 - 4 mm	
Nutrient requirements	Establishment: medium Maintenance: low	
Seeding rate	New sowing: 8 g/m ² Reseeding: approx. 4 g/m ²	
Packaging	11,35 kg container	
Agrostis stolonifera (wattle-grass)		



L-93 XD

Use	Golf greens, putting greens	<p>L-93 XD is another new variety in the portfolio at ProSementis GmbH with excellent dollar spot and brown patch tolerance (see www.ntep.org).</p> <p>Other characteristics are their rapid seedling development, rapid greening after winter and their dense, upright growth.</p> <p>In addition, it shows at the experimental stations in the USA and at the Scanturf. org trial plots showed good turf qualities throughout the year in a variety comparison.</p> <p>Colour-wise very suitable for over-seeding of already existing greens from 007, Luminary etc. and also well suited as a blending partner in blends.</p>
Site requirements	For all temperate locations	
Resilience	High	
Maintenance effort	High	
Cutting height	2.8 - 4 mm	
Nutrient requirements	Establishment: medium Maintenance: low	
Seed rate	New sowing: 8 g/m ² Reseeding: approx. 4 g/m ²	
Packing	11,35 kg container	
Agrostis stolonifera (wattle-grass)		



Valderrama

Use	Golf greens, putting greens	<p>ProSementis GmbH was able to exclusively secure another new <i>Agrostis stolonifera</i> variety from the USA.</p> <p>VALDERRAMA has a broad genetic base and has already performed very well with heavily used and stressed</p> <p>Proven on golf greens where heat and disease are the main problems. Well suited for over-seeding existing greens.</p> <ul style="list-style-type: none">► Excellent year-round quality of the sward► Improved tolerance against Dollar Spot and Brown Patch► Competitive against <i>Poa annua</i>► Very heat tolerant► Medium green colour► Excellent winter colour without violet tinting► Vigorous, uniform and moderately dense growth► Reduced care costs
Site requirements	For all temperate locations	
Resilience	High	
Maintenance effort	Medium to high	
Cutting height	2.8 - 4 mm	
Nutrient requirements	Establishment: medium Maintenance: low	
Seed rate	New sowing: 8 g/m ² Reseeding: approx. 4 g/m ²	
Packing	11,35 kg container	
Agrostis stolonifera (wattle-grass)		





Pennlinks II

Use	Golf Greens, Putting Greens	<p>PENNLINKS II is a successor to PENNCROSS with a narrower leaf and more upright growth. It has exceptionally good heat and temperature Drought tolerance, improved shoot density, and outstanding dollar spot resistance.</p> <p>Greenkeepers who do not belong to the youngest generation of wattle grasses with The PENNLINKS II is the perfect choice for people who tend to require a lot of maintenance, not least because of its excellent properties.</p>
Site requirements	For all temperate locations	
Resilience	High	
Maintenance effort	Medium to high	
Cutting height	3.5 - 4 mm	
Nutrient requirements	Medium	
Seed rate	New sowing: 8 g/m ² Reseeding: approx. 4 g/m ²	
Packing	11,35 kg container	
Agrostis stolonifera (wattle-grass)		



Agrostis capillaris

Musket

- ▶ High scar density
- ▶ rapid greening in spring
- ▶ Good durability
- ▶ good Fusarium and Brown Patch tolerance

Barking

- ▶ very fine-leaved
- ▶ Good scar density
- ▶ Very hardy
- ▶ excellent winter colour

Polana

- ▶ very adaptable
- ▶ very good deep cut compatibility
- ▶ somewhat shade tolerant
- ▶ good tolerance against red pointiness

Sowing rate new sowing: 8 - 10 gr/m²
Reseeding: approx. 4

g/m² Packaging 20 or 25 kg bag



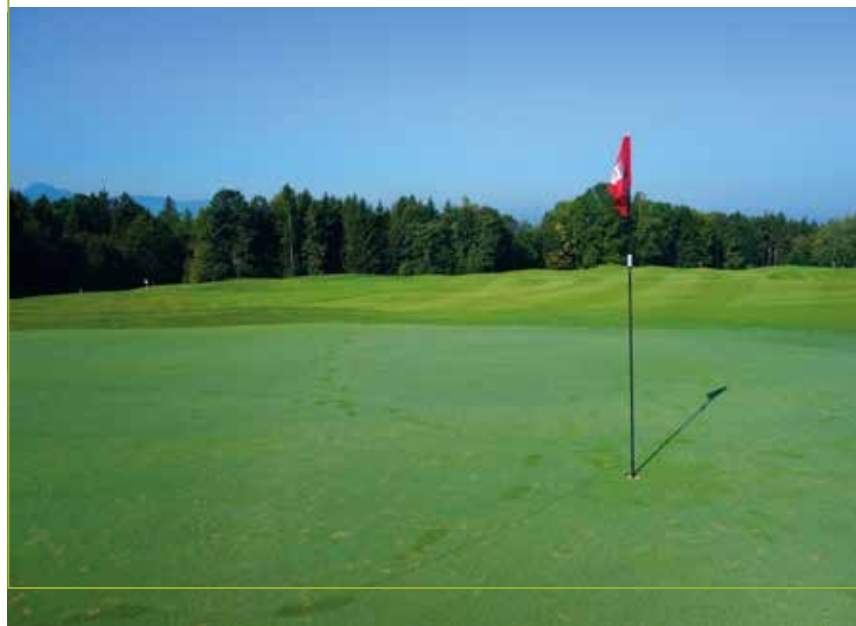
Agrostis BlendPS-7

Use	Golf Greens, Putting Greens	This variety mix combines the advantages of several Agrostis stolonifera top varieties. As not all greenery has the same site conditions (partial shade, air turnover, susceptibility to drought and disease, etc.) etc.), can therefore the positive characteristics of the respective individual varieties prevail, if necessary, and thus any weaknesses of one kind or another. The varieties used are very close in appearance in terms of leaf width, colouring and growth speed, so that that visually no differences can be seen.
Site requirements	For all temperate Locations	
Load capacity	High	
Maintenance effort	Very high	
Cutting height	2.8 - 4 mm	
Nutrient requirements	Medium	
Seeding rate	New sowing: 8 g/m ² Reseeding: approx. 4 g/m ²	
Packing	10 kg bag	
35% Agrostis stolonifera LUMINARY 30% Agrostis stolonifera PENNLINKS II 35% Agrostis stolonifera 007 DSB		



OLYMPIC-MIXPS-9

Use	Golf Greens, Putting Greens	Due to the high proportion of Agrostis stolonifera, this Greens mixture develops very quickly. Greenkeeper the Agrostis stolonifera dominant greens with the latest varieties wish, often opt for this composition. In the Agrostis varieties, we only use top varieties such as Luminary and 007 DSB (see page 7), which are complemented by two Festuca species with top ratings in the low cut. This combination gives a mixture with excellent tolerance to Brown Patch, Dollar spot, pythium and snow mould. Other outstanding characteristics are the rapid seedling development and the quick greening after the Winter.
Site requirements	For all temperate Locations	
Load capacity	High	
Maintenance effort	Very high	
Cutting height	2.8 - 4 mm	
Nutrient requirements	Establishment: medium Maintenance: low	
Seeding rate	New sowing: 20-25 g/m ²	
Packing	10 kg bag	
12.5% Agrostis stolonifera LUMINARY 12.5% Agrostis stolonifera 007 DSB 35% Fest. rubra commutata CAPRICCIO 20% Fest. rubra trichophylla EUROMARIE 20% Festuca rubra trichophylla BURLUNA		





Superior-GreenPS-12

Use	Golf Greens, Putting Greens	The combination of the two top varieties LUMINARY and 007 DSB, together with the particularly disease-resistant Festuca cultivars allow a grass heritage of The result is a plant that thrives even in difficult climatic conditions.
Site requirements	For all temperate Locations	
Load capacity	High	
Maintenance effort	Very high	This mixture is particularly suitable for users who, in addition to the advantages of the new wattle grasses generation also benefits from the disease-resistant Festuca species during of the development maintenance would like to use.
Cutting height	2.8 - 4 mm	
Nutrient requirements	Establishment: medium Maintenance: low	
Sowing rate	25 g/m²	A 15% seed share of Agrostis stolonifera is completely sufficient here to create an Agrostis-dominant green in the course of time, with appropriate fertilisation. to obtain.
Packing	10 kg bag	
7.5% Agrostis stolonifera LUMINARY 7.5% Agrostis stolonifera 007 DSB 25% Fest. rubra commutata CAPRICCIO 20% Fest. rubra commutata EUROCARINA 20% Festuca rubra trichophylla BORLUNA		
20% Fest. rubra trichophylla EUROMARIE		



Premium GreenPS-10

Use	Golf Greens, Putting Greens	<p>A grass combination that has been successfully used in this species composition for many years on European golf courses.</p> <p>greens is used. It is used only varieties that are always among the best in the listings of international variety tests and evaluations are used.</p> <p>Depending on the amount of nitrogen applied, an agrostis dominant stand will develop with good fertilisation. In the case infection by Take-All Patch, the Festuca varieties contained show a high resistance and therefore enable rapid scar closure. The</p> <p>The risk of immigration by Poa annua is thus minimised.</p> <p>For reseeding this mixture we recommend either Agrostis single varieties or the Greens PS-8 reseed.</p>
Site requirements	For all temperate Locations	
Resilience	Medium to high	
Maintenance effort	High	
Cutting height	3.5 - 4.5 mm	
Nutrient requirements	Medium to high	
Sowing rate	25 -30 g/m ²	
Packing	10 kg bag	
4% Agrostis capillaris BARKING 4% Agrostis capillaris POLANA 4% Agrostis stolonifera PENNLINKS II 3% Agrostis stolonifera LUMINARY 20% Fest. rubra commutata CAPRICCIO 25% Fest. rubra commutata EUROCARINA 40% Fest. rubra trichophylla EUROMARIE		



British-GreenPS-11

Use	Golf greens, putting Greens, target greens	<p>If a mixture is desired that is relatively easy to care for and also inexpensive to maintain, then we recommend the seeding mixture PS-11, which is characterised by a low tendency to felting and a low susceptibility to Fusarium and Fusarium disease. Dollar Spot convinced.</p> <p>On the one hand, this seeding does not require a high level of maintenance, but on the other hand it has a lower deep cut tolerance (not less than 4 mm) and resilience.</p> <p>on.</p> <p>It is also very well suited for high altitudes with high precipitation. In the listed species composition This mixture corresponds to the classic English golf and bowling greens.</p>
Site requirements	Normal sites, also Suitable for high altitudes	
Resilience	Medium	
Maintenance effort	Medium to high	
Cutting height	4.0 - 5.0 mm	
Nutrient requirements	Medium	
Sowing rate	25 - 30 g/m ²	
Packing	10 kg bag	
7.5% Agrostis capillaris BARKING 7.5% Agrostis capillaris POLANA 25% Fest. rubra commutata CAPRICCIO 20% Fest. rubra commutata EUROCARINA 20% Fest. rubra trichophylla EUROMARIE		
20% Festuca rubra trichophylla BORLUNA		



Festuca-Greens MixturePS-33

Use	Golf greens, putting Greens, target greens	<p>Due to the great demand, we have now developed a pure Festuca mixture for Greens into our programme.</p> <p>Very well suited for new seeding or over-seeding of existing greens.</p> <ul style="list-style-type: none">► Deep cut compatible up to 4.5 mm► Very low N requirement► High disease tolerance► Rapid greening after winter► Excellent winter colour► Dense growth► Fewer cuts required► Particularly pure lots without foreign grasses
Site requirements	For all temperate Locations	
Resilience	Medium	
Maintenance effort	Medium	
Cutting height	4.5 mm	
Nutrient requirements	Establishment: medium Maintenance: low	
Seeding rate	New sowing: 30 g/m ² Reseeding: approx. 15 g/m ²	
Packing	20 kg bag	
25% Fest. rubra commutata EUROCARINA 25% Fest. rubra commutata CAPRICCIO 30% Festuca rubra trichophylla BORLUNA 20% Fest. rubra trichophylla EUROMARIE		





Greens Repair Mix "Lolium

PS-2209

Use	Golf, putting, winter greens and tees	<p>This mixture has been used in the past to reseed heavily damaged greens with large defects. Please do not Apply over the entire surface!</p> <p>Lolium perenne establishes very quickly, faster than all other lawn grasses. The Lolium varieties used here were grown in England for their deep cut compatibility at a cutting height of 4-7 mm (see Bingley STRI list). In conjunction with likewise very low cut tolerant Festuca varieties can be grown within a few weeks to be cleaned again.</p> <p>Later over-seeding, e.g. with Agrostis stolonifera, can displace Lolium again after several years. This mixture is also suitable for provisional greens or winter greens.</p> <p>Please consult us in advance for Greens reseeding!!!</p>
Site requirements	For all temperate locations	
Resilience	High	
Maintenance effort	Medium	
Cutting height	4 - 7 mm	
Nutrient requirements	Medium	
Seed rate	New sowing: 30 g/m ² Reseeding: 25 g/m ²	
Packing	10 kg bag	
35% Lolium perenne CLEMENTINE 35% Lolium perenne CYRENA 15% Fest. rubra commutata EUROCARINA 15% Fest. rubra trichophylla CATHRINE		



Greens reseeding

PS-8

Use	Golf greens, putting greens	The high proportions of fine-seeded Agrostis species allow a lower seed rate and ensure good distribution in the old stand prepared for reseeding.
Site requirements	For all temperate locations	
Resilience	Medium to high	
Maintenance effort	High	
Cutting height	3.5 - 4.5 mm	
Nutrient requirements	Medium to high	
Seed rate	25 - 30 g/m ²	Only the best Agrostis stolonifera varieties are used in this mixture, such as e.g. LUMINARY and for Agrostis capillaris the varieties BARKING and MUSKET for use.
Packing	10 kg bag	
10% Agrostis stolonifera LUMINARY 10% Agrostis stolonifera PENNLINKS II 10% Agrostis capillaris BARKING 10% Agrostis capillaris MUSKET 30% Fest. rubra commutata EUROCARINA 15% Festuca rubra trichophylla BORLUNA 15% Fest. rubra trichophylla EUROMARIE		



Greens reseeding with sowing aid

PS-6305

Use	Golf Greens, Putting Greens	This mixture contains, among others, our newest wicker grass varieties LUMINARY and MATCH PLAY with a good adaptability to proplema- tic sites, in combination with the Dollar Spot tolerant PENNLINKS II.
Site requirements	For all temperate locations	
Resilience	High	
Maintenance effort	High	
Cutting height	3.5 - 4.5 mm	
Nutrient requirements	Medium to high	This reseeding is also ideally suited for older greens that consist of a high proportion of Poa annua. The 50% seed aid content enables a more precise application with machines that cannot sow pure Agrostis!
Seed rate	approx. 10 - 15 g/m²	
Packing	15 kg bag	
15% Agrostis stolonifera PENNLINKS II 20% Agrostis stolonifera MATCH PLAY 15% Agrostis stolonifera LUMINARY 50% Seeding aid (clay mineral)		



Greens reseeding

PS-13

Use	Golf greens, putting greens	Due to the great demand, we have included this mixture in our programme again. This reseeding is particularly suitable for Greens whose stands include the species Festuca ssp., Agrostis capillaris and Agrostis stolonifera.
Site requirements	For all temperate locations	
Resilience	Medium to high	
Maintenance effort	High	
Cutting height	3.5 - 4.5 mm	
Nutrient requirements	Medium	LUMINARY shows very good adaptability to a wide range of site and climatic conditions and is also very disease tolerant to dollar spot and snow mould.
Seed rate	15 g/m ²	
Packaging	20 kg bag	
7.5% Agrostis stolonifera MATCH PLAY 7.5% Agrostis stolonifera LUMINARY 15% Agrostis capillaris POLANA 20% Fest. rubra commutata CAPRICCIO 20% Fest. rubra trichophylla CATHRINE 30% Seeding aid (clay mineral)		
MATCH PLAY is a new variety from the USA, which performs excellently in heat and drought and is also shade tolerant.		
POLANA is distinguished in the RSM by top marks for low cut. POLANA also convinces with its slow growth and a higher shade tolerance. In addition, it is tolerant to red pointiness.		





Approach "Tough" medium

Varieties

PS-17

green

Use	Pre-Green, Collar	<p>Recently, this collar mix has been proving popular among golf course architects and greenkeepers alike at golf courses.</p> <p>new construction and renovation projects are very popular.</p> <p>If a rapidly developing, resilient and quickly playable collar is required, then one should opt for</p> <p>This robust and deep-cutting-tolerant sowing mixture is the perfect choice for you.</p> <p>Because precisely where the green mowers are always turned, this resistant turf mixture withstands the required mechanical stresses.</p> <p>The extremely short pruning tolerant and fine-leaved Lolium perenne varieties CYRENA and GLADYS are suitable for made for this task.</p>
Site requirements	Without restriction	
Resilience	High	
Maintenance effort	Medium to high	
Cutting height	8 - 12 mm	
Nutrient requirements	Medium to high	
Seed rate	25 g/m ²	
Packaging	10 kg bag	
15% Fest. rubra commutata CAPRICCIO 15% Fest. rubra trichophylla BORLUNA 15% Lolium perenne CYRENA 15% Lolium perenne GLADYS 15% Poa pratensis JULIUS 10% Poa pratensis YVETTE 15% Poa pratensis LIMOUSINE		



Top tea

RSM 4.3

PS-18

Use	Tee-offs, pitching areas, grass paths, driving ranges	<p>Here we use only the latest generation of Lolium varieties.</p> <p>CYRENA impresses with its fine dense growth and its very good deep cut tolerance.</p> <p>EUROPITCH convinces with Highest marks in grain density and durability and shows both a quick establishment and a good regeneration capacity. It is not without reason that it is one of the best varieties in the sports sector in Europe (see STRI list): www.strigroup.com) and in the RSM.</p> <p>With Poa pratensis, only varieties come The RSM's national and international rankings are all in favour of the use of these materials.</p>
Site requirements	Without restriction	
Load capacity	High	
Maintenance effort	High	
Cutting height	10 - 15 mm	
Nutrient requirements	Medium	
Sowing rate	25 g/m ²	
Packing	10 kg bag	
10% Fest. rubra trichophylla BORLUNA 10% Festuca rubra rubra ROSSINANTE 20% Fest. rubra commutata CAPRICCIO 15% Lolium perenne CYRENA 15% Lolium perenne EUROPITCH 15% Poa pratensis LINCOLNSHIRE 15% Poa pratensis JULIUS		



Dark Tea & Target Green Dark Green Varieties

PS-20

Use	Tee-offs, pitching areas, driving ranges, target greens	<p>A dark green tee mix that contrasts visually with the adjacent medium green fairways.</p> <p>and semiroughs.</p> <p>Selected dark green varieties give the sward the lasting rich green colour, which even in the autumn and winter months is a darker colour.</p> <p>has.</p> <p>The regular supply of high-quality NPK fertilisers is essential for good durability and grain density.</p> <p>indispensable. Divots must always be reseeded with the same grass mixture (or with our Revital Tea reseed PS-24 developed for this purpose) to avoid colour differences.</p> <p>TIP: Light sand can be coloured with our green turf colour LIQUID GREEN.</p>
Site requirements	If possible on Sowing substrates with little foreign grass	
Load capacity	High to very high	
Maintenance effort	High	
Cutting height	8 - 15 mm	
Nutrient requirements	Medium to high	
Sowing rate	25 g/m ²	
Packing	10 kg bag	
15% Festuca rubra commutata CAPRICCIO 15% Festuca rubra trichophylla BORLUNA 20% Lolium perenne DOUBLE 15% Lolium perenne STARFIRE 15% Poa pratensis LIBERATOR 20% Poa pratensis BLUESTAR		



Shadow Tee

PS-22

Use	Tees, fairways, Lawn paths in shade or at altitude	<p>Particularly suitable for areas that are considered problem areas due to lack of light. Nevertheless, min. 60% of the available sunlight must fall on it for grass growth to be possible at all.</p> <p>Also in the foothills of the Alps, the natural distribution area of Poa supina, is this mixture is very well suited, as it produces a dense, hard-wearing and regenerative strong sward is formed.</p> <p>Poa supina thrives best on polluted, nutrient-rich and moist soils.</p> <p>We have adapted the mixing partners accordingly with regard to the light leaf colouring of Poa supina.</p>
Habitat requirements	Light partial shade, Altitudes above 900 m a.s.l.	
Load capacity	High	
Maintenance effort	Medium to high	
Cutting height	10 - 15 mm	
Nutrient requirements	Medium	
Sowing rate	25 g/m ²	
Packing	10 kg bag	
5% Festuca rubra rubra ROSSINANTE 20% Fest. rubra commutata CAPRICCIO 10% Festuca rubra trichophylla BORLUNA 15% Lolium perenne GREENSKY 15% Lolium perenne CLEMENTINE 15% Poa pratensis JULIUS 15% Poa pratensis LIMOUSINE		





Sport regeneration only Lolium

RSM 3.2

PS-47

Use	Reseeding of played Tees and driving range tees	The turf is subject to heavy wear and tear and must therefore be reseeded regularly. For this purpose, a fast-germinating grass seed must be used, which quickly closes the gaps.
Site requirements	Without restriction	
Load capacity	High	Lolium perenne germinates after seven days under best conditions. This species establishes itself even in difficult soil conditions and is excellently suited for over-seeding without uprooting.
Maintenance effort	Medium to high	
Cutting height	10 - 15 mm	
Nutrient requirements	Medium to high	On very heavily used driving range tees, where the turf is almost completely played off and there is no time for the slow-germinating Poa pratensis to develop, we recommend this reseeded mixture.
Sowing rate	30 g/m ²	
Packaging	10 kg, 25 kg bag	
25% Lolium perenne OASE 25% Lolium perenne BOKSER 25% Lolium perenne GREENSKY 25% Lolium perenne TROYA		



Sports regeneration with Poa pratensis

RSM 3.2

PS-48

Use	Reseeding of played Tees and driving range tees	Compared to the regeneration mixture PS-47, this mixture contains an additional 10% of Poa pratensis (meadowgrass).
Site requirements	Without restriction	
Load capacity	High	This ensures improved resistance to stress and increased underground runner formation.
Maintenance effort	Medium to high	
Cutting height	10 - 15 mm	
Nutrient requirements	Medium to high	In addition, Poa pratensis counteracts Lolium dominance and thus ensures a balanced development of the tee area.
Sowing rate	30 g/m ²	
Packaging	10 kg, 25 kg bag	
30% Lolium perenne OASE 30% Lolium perenne GREENSKY 30% Lolium perenne BOKSER 10% Poa pratensis MIRACLE		Particularly suitable for stand improvement and reseeded of scar damage on tees.



Tea Regeneration with 20% Poa pratensis RSM 3.2 PS-2404

Use	Played off tees, Pitching areas, grass paths	<h2>OUR RECOMMENDATION</h2> <p>This lawn mixture contains only the hardiest varieties that are slightly lighter in leaf colour.</p> <p>Therefore, it is also excellently suited in terms of colour to areas where Poa supina or Poa annua are dominant. Only varieties with the highest RSM rating are used. The high proportion of Poa pratensis ensures increased underground runners, which result in a more durable turf.</p> <p>Due to constant requests for regeneration mixtures with a higher Poa content, we have this mixture, which was already created in 2004, in our programme.</p>
Site requirements	Without restriction	
Load capacity	High	
Maintenance effort	Medium to high	
Cutting height	10 - 15 mm	
Nutrient requirements	Medium to high	
Sowing rate	30 g/m²	
Packing	25 kg bag	
25% Lolium perenne EUROCORDUS 25% Lolium perenne GREENSKY 30% Lolium perenne OASE 10% Poa pratensis YVETTE 10% Poa pratensis LINCOLNSHIRE		



Revital tea reseeding dark green varieties PS-24

Use	Played off tees, Pitching areas, grass paths	<p>Scar damage and divots on tees and driving range tees are reseeded with this dark green, fast-germinating and fast-establishing grass mixture.</p> <p>The grass varieties are selected according to the criteria of rapid germination and scar development.</p> <p>The Lolium varieties used are also very drought and heat resistant.</p> <p>Caution: Do not sow in medium green or light green stands.</p>
Site requirements	If possible, not in Poa annua/trivialis in polluted soils	
Load capacity	High	
Maintenance effort	Medium to high	
Cutting height	10 - 15 mm	
Nutrient requirements	Medium to high	
Sowing rate	30 g/m²	
Packing	25 kg bag	
40% Lolium perenne STARFIRE 45% Lolium perenne DOUBLE 15% Poa pratensis LIBERATOR		





Fixstart tea dark green varieties

PS-19

Use	Tee-offs, target greens, pitching areas, grass paths, horse racing tracks	The high proportion of Lolium perenne in this reseeding mixture ensures very rapid development and thus forms a durable, highly resilient and regenerative sward.
Site requirements	If possible, not in Poa annua/trivialis in polluted soils	
Load capacity	High to very high	
Maintenance effort	High	
Cutting height	10 - 25 mm	
Nutrient requirements	Medium to high	The striking dark green colour of the grasses makes the tees, grass paths and target greens stand out against the surrounding areas in terms of colour and contrast.
Sowing rate	30 g/m ²	
Packing	25 kg bag	
35% Lolium perenne DOUBLE 35% Lolium perenne STARFIRE 15% Poa pratensis BLUESTAR 15% Poa pratensis LIBERATOR		Attention: Please do not sow in medium green stands to avoid a patchy stand formation.



Drought-tolerant mixture^{mit tetraploid}

PS-43

Lolium varieties

Use	New and reseeding for drought-damaged fairways, semiroughs, grass paths	Due to the hot and dry summers of recent years and the immense drought and heat damage on golf courses, there has been an increased demand for a drought-tolerant mix that we have developed specifically for these needs.
Site requirements	For all sites, especially driers Dry locations	
Resilience	After establishment high	
Maintenance effort	Medium	
Cutting height	Fairways: 15 - 20 mm Semiroughs: approx. 50 mm	
Nutrient requirements	Medium to high	After consultation with leading breeders, only varieties that specifically show improved drought and heat resistance in the trial fields are used here, such as the tetraploid Lolium varieties STARFIRE and DOUBLE.
Seeding rate	New sowing: 25-30 g/m ² Reseeding: 12 - 20 g/m ²	
Packaging	10 kg, 25 kg bag	
10% Festuca trachyphylla CRYSTAL 10% Fest. rubra commutata CAPRICCIO 10% Festuca rubra rubra ROSSINANTE 20% Lolium perenne DOUBLE 20% Lolium perenne STARFIRE 15% Poa pratensis ZEPTOR 15% Poa pratensis BLUESTAR		The Poa pratensis varieties BLUESTAR and ZEPTOR are among the best in drought conditions and quickly close gaps in the stigma with their subterranean rhizomes. Festuca rubra commutata and also Festuca trachyphylla need little water and therefore cope well with drought and little fertiliser. Even after a longer dry period, all grasses regenerate after rainfall.



Fairway with 30% Lolium perenne

PS-25

Use	Fairways, Semiroughs, Representative lawn	<p>This is a classic fairway blend that impresses with its fast grain formation and t h e resulting rapid playability.</p> <p>The high proportion of fast-germinating Lolium perenne makes this mixture particularly suitable for soils prone to erosion and weed infestation.</p> <p>Newly sown areas can be mown earlier, which inhibits or even damages the development of soil-borne weeds.</p> <p>The rapid initial development of this fairway mixture further suppresses weed germination and development.</p>
Site requirements in the	For all locations, especially in the	
	Especially for soils prone to erosion, silting and weed infestation.	
Load capacity	High	
Maintenance effort	Medium to high	
Cutting height	15 - 20 mm	
Nutrient requirements	Medium	
Sowing rate	30 g/m²	
Packing	20 Kg bag	
15% Fest. rubra commutata CAPRICCIO 15% Festuca rubra rubra ROSSINANTE 10% Festuca rubra trichophylla BORLUNA 15% Lolium perenne GLADYS 15% Lolium perenne GREENSKY 15% Poa pratensis YVETTE 15% Poa pratensis MIRACLE		



Fairway with 15% Lolium perenne

PS-26

Use	Fairways, Semiroughs, Representative lawn	<p>This species and variety composition is already considered a classic by golf architects and greenkeepers.</p> <p>The only 15% share of rapidly germinating Lolium perenne ensures rapid scarring and shading of the subsequently germinating species.</p> <p>However, the later leaf mass increase is lower than with comparable mixtures, such as our PS-25, due to the reduced proportion of Lolium perenne.</p> <p>When fully developed, a functional, dense sward with low, dense growth and low clippings is formed.</p> <p>The increased proportion of Festuca ssp. contributes to the winter stability of the sward and ensures a closed turf with few nutrients.</p>
Site requirements	For all sites, also for Altitudes suitable	
Load capacity	High	
Maintenance effort	Medium to high	
Cutting height	15 - 20 mm	
Nutrient requirements	Medium	
Sowing rate	25 g/m ²	
Packing	20 Kg bag	
<p>20% Fest. rubra commutata CAPRICCIO</p> <p>15% Festuca rubra rubra ROSSINANTE</p> <p>20% Fest. rubra trichophylla BORLUNA</p> <p>7.5% Lolium perenne GREENSKY</p> <p>7.5% Lolium perenne CYRENA</p> <p>15% Poa pratensis YVETTE</p> <p>15% Poa pratensis MIRACLE</p>		





Fairway "Exclusiv" with 20% Lolium perenne

PS-251

Use	Fairways, Semiroughs, Representative lawn	<p>Recently, we have been using this fairway mix, which is hard to beat in terms of the high value and quality of the varieties it contains, greened a wide variety of golf courses to our complete satisfaction.</p> <p>Due to this success, we have decided to include this exclusive blend in our range. decided.</p> <p>EUROCORDUS and GREENSKY have the best ratings in durability. In the STRI variety trials in England, these varieties were tested at a cutting height of 10-15 mm and also received a good rating.</p> <p>In addition, we use varieties in this e x c l u s i v e mixture that are particularly pure with regard to undesirable foreign grasses. Many new and replanted plants have opted for this special mixture. Mixture decided.</p>
Site requirements	For all locations	
Load capacity	High	
Maintenance effort	Medium to high	
Cutting height	15 - 20 mm	
Nutrient requirements	Medium	
Sowing rate	25 g/m ²	
Packing	20 kg bag	
20% Fest. rubra commutata CAPRICCIO 25% Festuca rubra trichophylla BORLUNA 10% Lolium perenne GREENSKY 10% Lolium perenne EUROCORDUS 15% Poa pratensis YVETTE 10% Poa pratensis JULIUS 10% Poa pratensis LINCOLNSHIRE		



Fairway with Poa supina

PS-21

Use	Fairways, Semiroughs, Representative lawn	<p>This species-rich fairway grass mulch is particularly suitable for alpine and pre-alpine locations.</p> <p>We therefore recommend it only for sites where the woodrush (<i>Poa supina</i>) is also native.</p> <p>An exception are shady locations where conventional fairway mixtures are not to be used.</p> <p>If the site is suitable, the woodruff will establish itself as a stand-forming species.</p> <p>The <i>Poa pratensis</i> and <i>Lolium</i> varieties used are somewhat lighter in colour and therefore go well with <i>Poa supina</i>.</p>
Site requirements	For pre-Alpine and Alpine Sites, as well as shady sites	
Load capacity	High	
Maintenance effort	Medium to high	
Cutting height	15 - 20 mm	
Nutrient requirements	Medium	
Sowing rate	30 g/m ²	
Packing	20 kg bag	
10% Fest. rubra commutata CAPRICCIO 15% Festuca rubra rubra ROSSINANTE 15% Festuca rubra trichophylla BORLUNA 15% Lolium perenne GREENSKY 15% Lolium perenne CYRENA 25% Poa pratensis LIMOUSINE 5% Poa supina SUPREME		



Fairway Poa-Festuca

PS-27

Use	Fairways, Semiroughs, Representative lawn	<p>By using Poa pratensis and Festuca rubra varieties, a dense, sustainable fairway lawn with excellent playing characteristics develops. The golf ball is ideally supported by the strong, taut leaves. Due to the slow growth of the grasses, this fairway lawn does not need to be cut so often.</p> <p>We recommend sowing in late summer, as the soil-borne weed pressure is low and the soil is still sufficiently warm. Furthermore, the natural soil moisture increases at this time of year. However, this mixture usually needs a whole vegetation period for full development. In return, the golfer is rewarded with an excellent fairway turf. Other advantages of this mixture that should be emphasised are the low amount of cuttings and the snow mould tolerance.</p>
Site requirements	For all sites, except for soils prone to erosion, silting and weed infestation	
Resilience	Medium to high	
Maintenance effort	Medium to high	
Cutting height	15 - 20 mm	
Nutrient requirements	Medium	
Sowing rate	25 g/m²	
Packing	20 Kg bag	
20% Festuca rubra rubra ROSSINANTE 15% Fest. rubra commutata CAPRICCIO 20% Festuca rubra trichophylla BORLUNA 15% Poa pratensis LIMOUSINE 15% Poa pratensis YVETTE 15% Poa pratensis MARKUS		



British-Fairway

PS-23

Use	Fairways, Semiroughs	<p>We recommend this lawn mixture only on light soils that do not harbour agricultural grasses, especially German ryegrass (<i>Lolium perenne</i>). This is a very drought-tolerant mixture that requires almost no fertiliser.</p> <p>The appearance shows a slightly weaker green colour than fairways sown with <i>Lolium</i>. Greenkeepers appreciate this mixture because of its slow growth and low-cost maintenance, as well as its excellent deep-cutting tolerance. Especially in eastern and northern Germany, these mixtures have been used frequently.</p> <p>We do not recommend this mixture in areas with high rainfall on cohesive soils. However, if this mixture is used on very fertile, nutrient-rich soils, strong <i>Poa annua</i> pressure and lawn thatch can be expected.</p>
Site requirements	Low rainfall and nutrient-poor, light soils	
Resilience	Medium	
Maintenance effort	Low	
Cutting height	8 - 18 mm	
Nutrient requirements	Low	
Sowing rate	25 g/m ²	
Packing	20 Kg bag	
5% <i>Agrostis capillaris</i> POLANA 10% <i>Agrostis capillaris</i> HIGHLAND 15% <i>Festuca trachyphylla</i> CRYSTAL 25% <i>Festuca rubra rubra</i> ROSSINANTE 25% <i>Fest. rubra commutata</i> CAPRICCIO 20% <i>Festuca rubra trichophylla</i> BORLUNA		





Fairway reseeding

PS-29

Use	Seeded through for dry heitsgeschädigte Fairways, Semiroughs, Rasenwege	This has become our classic fairway reseed!
Site requirements	For all sites, especially ders Dry locations	The patchy fairways and semiroughs that have become dead due to summer drought and heat will be restored with this
Load capacity	After full development high	Grass mixture reseeded, to which we add recommend the use of a special reseeding machine with slots.
Maintenance effort	Medium	
Cutting height	Fairways: 15 - 18 mm Semiroughs: - 50 mm	The fast-germinating Lolium perenne guarantees rapid re-vegetation and, in combination with Poa pratensis, ensures the formation of a strap-ornamental turf. The Lolium varieties used are very heat and drought tolerant.
Nutrient requirements	Medium to high	
Sowing rate	20 - 30 g/m ²	
Packaging	25 kg bag	
15% Festuca trachyphylla CRYSTAL 10% Festuca rubra rubra MAXIMA 1 10% Fest. rubra commutata CAPRICCIO 15% Lolium perenne PASCAL 15% Lolium perenne DOUBLE 15% Lolium perenne OASE 20% Poa pratensis MARKUS		The Festuca species improve the drought tolerance of the stigma immensely and are very deep cut tolerant. conductive. This mixture is also suitable for rejuvenating older and patchy fairways.



Festuca fairway reseeding

PS-34

Use	New and reseeding of Fairways	This fairway mixture consists of various Festuca grasses that are particularly well suited to lean sites. It grows excellently on sandy soils and is well suited for new seedings as well as for reseeding.
Site requirements	Nutrient-poor soils	<ul style="list-style-type: none">► Very low nitrogen requirement► High disease tolerance► Good growth in the cool season► Excellent winter colour► Dense growth► Low growth rate <p>► Requires little water</p> <p>Not suitable for heavy, moist and nutrient-rich soils!</p>
Resilience	Low to medium	
Maintenance effort	Low	
Cutting height	12 - 18 mm	
Nutrient requirements	Establishment: medium Maintenance: low	
Seeding rate	New sowing: 30 g/m ² Reseeding: approx. 15 g/m ²	
Packing	20 kg bag	
15% Festuca rubra commutata JOANNA 15% Festuca rubra commutata CAPRICCIO 30% Festuca rubra rubra ROSSINANTE 20% Festuca rubra trichophylla BORLUNA 20% Festuca rubra trichophylla CATHRINE		



Semirough (or Fairway) with Arundinacea

PS-31

Use	Semiroughs, fairways, Bunker walls	<p>This mixture contains broad-leaved, dark green reed cane and meadow grass varieties that form a robust stand of grasses and therefore stand out clearly from adjacent lawns (visual separation).</p> <p>With a constant fairway cut height of approx. 15 mm, the grasses develop narrower leaves, their firm and upright growth guarantees an outstanding ball-bearing sward (brush effect).</p> <p>Festuca arundinacea roots very deeply and is therefore particularly well suited to dry, unirrigated and also somewhat shaded sites, such as semiroughs and steep bunker walls.</p> <p>Caution: Do not use in cool regions! Tall fescue turns grey during prolonged frost and only turns green again at warmer temperatures! Late autumn fertilisation is recommended.</p>
Site requirements Mild sites, dry or damp locations		
Resilience	Medium	
Maintenance effort	Medium	
Cutting height	15 - 50 mm	
Nutrient requirements	Medium	
Sowing rate	35 - 40 g/m²	
Packing	25 kg bag	
45% Festuca arundinacea MEISTER 45% Festuca arundinacea REGENERATE 10% Poa pratensis BLUESTAR		



Extensive Hard-Rough

PS-32

Use	Low maintenance hard roughs	<p>On the one hand, the maintenance of the rough should be as cost-effective as possible, on the other hand, certain technical requirements have to be fulfilled.</p> <p>For this reason, we have put together a mixture that forms little leaf mass, is short-growing and enables the golfer to find the golf ball quickly.</p> <p>This rough mix can also be used very well as a design element in golf course architecture, as the grasses turn straw-yellow in summer and form a clear contrast to surrounding areas and playing surfaces.</p> <p>In this stand, sowing of flowers and herbs is possible under certain conditions.</p>
Site requirements Without restriction		
Resilience	Low	
Maintenance effort	0 - 3 cuts per year	
Cutting height	Depending on demand	
Nutrient requirements	If necessary, only for establishment	
Sowing rate	10 - 15 g/m ²	
Packing	20 kg bag	
30% Festuca trachyphylla BORNITO 35% Fest. rubra commutata CAPRICCIO 35% Festuca rubra rubra MAXIMA 1		





Sports turf

League sports turf for reseeding

RSM 3.1 PS-40

Use	Football pitches, hockey turf, highly stressed sports turf	<p>Only grasses with the highest performance and good RSM rating are used in this sports turf mixture.</p> <p>The result is a dense-growing, regenerative, deep-cutting tolerant and vital lawn that meets high quality standards.</p> <p>In order to promote the outstanding properties of the grasses, regular nutrient applications are indispensable.</p> <p>In case of scar damage, we recommend our regeneration reseed PS-48.</p>
Site requirements	Vegetation areas with Substrate substructure	
Resilience	All year high	
Maintenance effort	Medium to high	
Cutting height	25 - 30 mm	
Nutrient requirements	Medium to high	
Sowing rate	25 g/m ²	
Packaging	10 kg, 25 kg bag	
15% Lolium perenne COLETTA 20% Lolium perenne OASE 15% Lolium perenne EUROCORDUS 15% Poa pratensis YYETTE 15% Poa pratensis LINCOLNSHIRE 20% Poa pratensis MIRACLE		



Champion Sport with Headstart & EKOprow Turf

RSM 3.1 PS-49

Use	Football pitches, hockey turf, highly stressed sports turf	<p>By treating individual Poa varieties with the germination accelerator HEADSTART®, a faster and more uniform emergence is achieved and in this way the time until the sports lawns are ready for play is decisively shortened.</p> <p>The varieties used here exceed the quality requirements of the RSM by far and guarantee high resilience, as well as good deep cut tolerance and shear resistance. In addition, this mixture impresses with the greatest scar stability, excellent scar density and lower emergence by means of subterranean runners of Poa pratensis.</p> <p>For faster seedling development and more vital root growth, which sustainably promotes the development of the turf grasses, the mixture was additionally treated with EKOprow Turf (see page 60).</p>
Site requirements	Vegetation areas with Substrate substructure	
Resilience	All year high	
Maintenance effort	Medium to high	
Cutting height	25 - 30 mm	
Nutrient requirements	Medium to high	
Sowing rate	25 g/m²	
Packaging	25 kg bag	
15% Lolium perenne EUROPITCH (B) 15% Lolium perenne EUROCORDUS (B) 20% Lolium perenne OASE (B) 20% Poa pratensis YVETTE (A, B) 15% Poa pratensis LIMOUSINE (A, B) 15% Poa pratensis JULIUS (A, B) with A) Headstart with B) EKOprow Turf		





Stadium regeneration particularly high purity RSM 3.2 PS-45

Use	For the very highest demands for reseeding on hard-wearing turf	Only Lolium varieties with the highest purity and germination capacity are used here. The varieties show in the RSM list or have the highest score of 9. in STRI England in the sports section a very good rating.
Site requirements	Without restriction	
Load capacity	High	
Maintenance effort	Medium to high	This mixture impresses with its superior shear strength, grain density and durability. EUROCORDUS and EUROPITCH have proven their worth in the stadiums and training grounds of the Bundesliga.
Cutting height	25 - 35 mm	
Nutrient requirements	Medium to high	
Sowing rate	30 g/m ²	
Packing	25 kg bag	Also ideally suited for hybrid lawns and for reseeding demanding lawns.
35% Lolium perenne EUROCORDUS 30% Lolium perenne EUROPITCH 35% Lolium perenne OASE		A more durable Lolium reseeding is not possible!



Sports Regeneration with 20% Poa pratensis RSM 3.2 PS-2404

Use	Reseeding of played Sports and hard-wearing turf	OUR RECOMMENDATION
Site requirements	Without restriction	This regeneration contains only the hardest varieties for the sports sector. All varieties are slightly lighter in leaf colour.
Load capacity	High	
Maintenance effort	Medium to high	Therefore, they are also excellently suited to areas with a high proportion of Poa annua. The increased proportion of Poa pratensis ensures increased subterranean runners, which result in a more durable turf.
Cutting height	25 - 35 mm	
Nutrient requirements	Medium to high	
Sowing rate	30 g/m ²	Due to constant requests for regeneration mixtures with a higher Poa content, we have this mixture, which was already created in 2004, in our programme.
Packing	25 kg bag	
25% Lolium perenne EUROCORDUS 25% Lolium perenne GREENSKY 30% Lolium perenne OASE 10% Poa pratensis YVETTE 10% Poa pratensis LINCOLNSHIRE		



Sports regeneration with Poa pratensis RSM 3.2 PS-48

Use	Reseeding of played Sports and hard-wearing turf	Compared to the regeneration mixture PS-47, this composition contains an additional 10% of Poa pratensis (meadow-grass).
Site requirements	Without restriction	
Load capacity	High	This ensures improved hardness and increased underground runner formation.
Maintenance effort	Medium to high	
Cutting height	25 - 35 mm	In addition, Poa pratensis counteracts Lolium dominance and thus ensures the development of a balanced sward.
Nutrient requirements	Medium to high	
Sowing rate	30 g/m ²	Particularly suitable for stand improvement and reseeded of scar damage on grass playing fields.
Packaging	10 kg, 25 kg bag	
30% Lolium perenne OASE 30% Lolium perenne GREENSKY 30% Lolium perenne BOKSER 10% Poa pratensis MIRACLE		Private green spaces can also be regenerated quickly and successfully with this mixture.



Regeneration with Headstart® RSM 3.2 PS-44

Use	Re-seeding of grass playing fields, tees and driving range tees.	To accelerate the germination and juvenile development of Poa pratensis, the Poa varieties used in this mixture are treated with the special germination accelerator HEADSTART®.
Site requirements	Without restriction	
Load capacity	High	If a rapid development of Poa pratensis is desired, or a reseeded at the end of the vegetation period is unavoidable, then you will certainly make the right decision by choosing this mixture.
Maintenance effort	Medium to high	
Cutting height	25 - 35 mm	
Nutrient requirements	Medium to high	(Information on HEADSTART® can be found on page 61)
Sowing rate	30 g/m ²	
Packaging	25 kg bag	
30% Lolium perenne COLETTA 30% Lolium perenne GREENSKY 25% Lolium perenne OASE 10% Poa pratensis MIRACLE HEADSTART® 5% Poa pratensis YVETTE HEADSTART®		





Sport regeneration with Lolium

RSM 3.2 PS-47

Use	Reseeding of played Sports and hard-wearing turf, tees, driving range
Site requirements	Without restriction
Load capacity	High
Maintenance effort	Medium to high
Cutting height	25 - 35 mm
Nutrient requirements	Medium to high
Sowing rate	30 g/m ²
Packaging	10 kg, 25 kg bag
25% Lolium perenne OASE 25% Lolium perenne BOKSER 25% Lolium perenne GREENSKY 25% Lolium perenne TROYA	

Sports lawns are subject to heavy wear and tear and therefore need to be reseeded regularly. A fast-germinating grass mixture is particularly suitable for this purpose, as it quickly closes any gaps that have formed.

Lolium perenne germinates after seven days under best conditions. This species establishes itself even in difficult soil conditions and is excellently suited for over-seeding without uprooting.

On very heavily used lawns, where the turf is almost completely played off and there is no time for the slow-germinating Poa pratensis to develop, we recommend this reseeded mixture.



"Hybrid pitch" sports turf

PS-1811

Use	High-quality football pitches, hybrid pitches, Koro renovation
Site requirements	Vegetation areas with Substrate substructure
Resilience	All year high
Maintenance effort	Medium to high
Cutting height	25 - 40 mm
Nutrient requirements	Medium to high
Sowing rate	approx. 40 - 45 g/m ²
Packing	25 kg bag
30% Lolium perenne GREENSKY 20% Lolium perenne EUROCORDUS 20% Lolium perenne OASE 15% Poa pratensis YVETTE Headstart 15% Poa pratensis LINCOLNSHIRE Headstart	

This special mixture uses only grasses with the best wear properties and the highest purity with regard to foreign grasses. In 2011, we developed this mixture for a customer who was carrying out the first so-called "Koro renovation" (milling off the top base layer) on a federal list.

After milling and reseeded, the stand can be loaded again after approx. 10 - 12 weeks.

Since then, many high-quality pitches have been sown with this mixture, including many hybrid pitches (reinforcement of the base layer with synthetic fibres).

The Poa pratensis is treated with germination accelerator HEADSTART (see page 61), which shortens germination time and in addition the mixture has been treated with EKOprom Turf (see page 60) for improved grass growth.



Drought-tolerant regeneration

PS-41

Use	Reseeding drought-damaged football fields, fairways	<p>Due to the hot and dry summers of the last few years and the immense drought and heat damage on sports fields, there was an increased demand for a drought-tolerant mixture that we developed specifically for these needs.</p> <p>After consultation with leading breeders, only varieties that specifically show improved drought and heat resistance in the trial fields are used here, such as the tetraploid Lolium varieties FABIAN and DOUBLE. The Poa pratensis cultivars BLUESTAR and ZEPTOR are very drought-tolerant and their underground rhizomes quickly close gaps in the stigma.</p> <p>Even after a prolonged dry phase, these grasses regenerate again after knockdown.</p>
Site requirements	Without restriction	
Resilience	Medium to high	
Maintenance effort	Medium to high	
Cutting height	25 - 40 mm	
Nutrient requirements	Medium to high	
Sowing rate	30 g/m ²	
Packing	25 kg bag	<p>35% Lolium perenne DOUBLE 35% Lolium perenne FABIAN 15% Poa pratensis ZEPTOR 15% Poa pratensis BLUESTAR</p>



Standard sports turf

PS-42

Use	Simple sports lawns, home gardens and open spaces	<p>This is an inexpensive grass mixture that can be sown practically anywhere where a relatively hard-wearing turf is to be developed with little effort.</p> <p>The high proportion of Lolium perenne ensures rapid greening of the areas, but this also results in a higher amount of cuttings. More frequent mowing is necessary.</p> <p>This mixture is also popular for heavily used home gardens.</p>
Site requirements	Without restriction	
Resilience	Medium	
Maintenance effort	Low to medium	
Cutting height	30 - 40 mm	
Nutrient requirements	Medium	
Sowing rate	30 - 35 g/m ²	
Packing	10 kg bag	<p>20% Festuca rubra rubra MAXIMA 1 20% Fest. rubra commutata CHARACTER 20% Lolium perenne TURFSUN 20% Lolium perenne BOKSER 20% Poa pratensis MARKUS</p>





Utility turf

Utility turf Play turf

RSM 2.3 PS-56

Use	Home gardens, residential sett- green spaces, public green spaces	<p>This lawn mixture is ideal for universal use in home gardens and public green spaces due to its species and variety composition.</p> <p>The diversity of species gives this grass a high adaptability to soil and climate conditions.</p> <p>The composition of the sward can be influenced by maintenance alone, i.e. if little fertiliser and irrigation is used, a so-called extensive lawn with a high proportion of red fescue will develop.</p> <p>If the lawn is fertilised and watered when necessary, a dense, medium-green, tread-resistant and representative lawn carpet is created.</p>
Habitat requirements	Up to approx. 1000 m altitude above sea level	
Resilience	Medium to high	
Maintenance effort	Medium	
Cutting height	25 - 40 mm	
Nutrient requirements	Medium	
Sowing rate	25 g/m ²	
Packaging	10 kg, 20 kg bag	
20% Fest. rubra commutata CAPRICCIO 15% Festuca rubra rubra ROSSINANTE 10% Festuca rubra trichophylla BORLUNA 20% Lolium perenne GREENWAY 20% Lolium perenne OASE 10% Poa pratensis MIRACLE 5% Poa pratensis ZEPTOR		



Utility turf "Exclusive" dark green

PS-53

Use	High-quality park areas, home gardens, public green spaces	<p>The latest American breeds are used in this rich dark green lawn mixture. Exclusive golf courses and home gardens at home and abroad have already been sown with it several times.</p> <p>The high proportion of Lolium perenne ensures very rapid seed emergence.</p> <p>The dark green colour of the lawn guarantees you a visual highlight.</p> <p>If the existing topsoil is heavily contaminated with Poa annua or Poa trivialis, then a mixture with medium-green varieties must necessarily be used (e.g. utility turf PS-56).</p>
Site requirements	Without restriction	
Resilience	Medium to high	
Maintenance effort	Medium	
Cutting height	25 - 40 mm	
Nutrient requirements	Medium	
Sowing rate	25 g/m²	
Packing	10 kg bag	
15% Fest. rubra commutata CAPRICCIO 15% Festuca rubra trichophylla BORLUNA 20% Lolium perenne DOUBLE 15% Lolium perenne STARFIRE 15% Poa pratensis LIBERATOR 20% Poa pratensis JUMPSTART		



Standard ornamental lawn "Berlin Tiergarten" PS-50

Use	Home gardens, public green	This is an uncomplicated ornamental lawn produced only from cultivated varieties (not agricultural varieties), all of which are listed in the RSM.
Site requirements	Without restriction	
Resilience	Medium	This lawn can be sown in locations that are not particularly demanding in terms of maintenance.
Maintenance effort	Low to medium	
Cutting height	30 - 40 mm	This mixture is primarily characterised by a user-friendly price-performance ratio.
Nutrient requirements	Low to medium	
Sowing rate	30 - 35 g/m ²	
Packing	10 kg bag	
25% Fest. rubra commutata CAPRICCIO 30% Festuca rubra rubra MAXIMA 1 15% Lolium perenne TURFSUN 15% Lolium perenne BOKSER 15% Poa pratensis MIRACLE		



Shade lawn RSM 7.4 PS-52

Use	Private and public Green spaces	Despite selected shade-tolerant grasses such as Festuca trachyphylla and Poa nemoralis, this lawn still needs to benefit from direct sunlight to ensure a smooth metabolism of the grasses.
Site requirements	Semi-shaded sites	
Resilience	Medium	To guarantee sufficient photosynthesis, the lawn should not be cut below 5 cm so that this vital process can take place without restriction.
Maintenance effort	Low to medium	
Cutting height	40 - 70 mm	A balanced supply of nutrients helps to make it easier for grasses to grow on difficult sites.
Nutrient requirements	Medium	
Sowing rate	20 g/m ²	
Packing	10 kg bag	
5% Agrostis capillaris HIGHLAND 20% Festuca trachyphylla BORNITO 15% Fest. rubra commutata CAPRICCIO 15% Festuca rubra rubra MAXIMA 1 15% Festuca rubra trichophylla BORLUNA 15% Lolium perenne TROYA 10% Poa pratensis MIRACLE 5% Poa nemoralis ENHARY		





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Landscape lawn

Landscape Lawn Standard

RSM 7.1.1 PS-60

Use	Slopes, extensive Used areas, home gardens	<p>Wherever a minimum of maintenance is required, this grass is the right choice due to its low linear growth and negligible visible leaf mass formation.</p> <p>However, the stress should be low.</p> <p>This mixture only needs to be cut once a year on nutrient-poor soils.</p> <p>Maintenance fertilisation can usually be dispensed with.</p> <p>NOTE: Not permitted for greening in the open landscape with native seeds!</p>
Site requirements	For all sites, except extremely dry, a l p i n e , wet and shady sites	
Load capacity	Very low	
Maintenance effort	0 - 3 cuts per year	
Cutting height	5 - 10 cm	
Nutrient requirements	If necessary, only for establishment	
Sowing rate	20 g/m ²	
Packing	10 kg bag	<p>5% Agrostis capillaris HIGHLAND 35% Festuca trachyphylla BORNITO 15% Fest. rubra commutata CAPRICCIO 15% Festuca rubra rubra MAXIMA 1 15% Festuca rubra trichophylla BORLUNA 5% Lolium perenne TROYA 10% Poa pratensis MIRACLE</p>



Landscape Lawn Standard with Herbs

RSM 7.1.2 PS-61

Use	Slopes, extensive Utilised areas, home gardens	<p>5% Agrostis capillaris HIGHLAND 33.3% Festuca trachyphylla BORNITO 15% Fest. rubra commutata CAPRICCIO 15% Festuca rubra rubra MAXIMA 1 15% Festuca rubra trichophylla BORLUNA 5% Lolium perenne TROYA 10% Poa pratensis MIRACLE 0.2% Achillea millefolium Yarrow 0.2% Centaurea jacea Meadow-flower 0.1% Daucus carota Wild carrot 0.1% Galium album Meadow bedstraw 0.1% Galium verum Common bedstraw 0.1% Leontodon species Dandelion 0.3% Leucanthemum vulgare Meadow daisy 0.1% Pimpinella saxifraga Small burnet 0.1% Plantago lanceolata Ribwort plantain 0.1% Sangisorba minor Lesser meadow-herb 0.2% Lotus corniculatus Horned pod clover 0.1% Medicago lupulina Yellow clover</p>
Site requirements	For all sites, except extremely dry, a l p i n e , wet and shady sites	
Load capacity	Very low	
Maintenance effort	0 - 3 cuts per year	
Cutting height	5 - 10 cm	
Nutrient requirements	If necessary, only for establishment	
Sowing rate	20 g/m ²	
Packing	10 kg bag	<p>If you want to combine a high-maintenance greenery with a visually appealing flowering behaviour, the decides in favour of this landscape ra- sen, which, compared to the mix PS-60 contains a flower-herb additive.</p> <p>NOTE: Not permitted for greening in the open landscape with native seeds!</p>



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Landscape grassland dry sites

RSM 7.2.1 PS-62

Use	Slopes, extensive Utilised areas, home gardens	<p>This mixture is suitable for extensively used areas, embankments, along traffic routes and verges.</p> <p>For the greening of extremely dry sites with alkaline soil properties, where stand development is at risk of erosion, the addition of 1 g/m² annual ryegrass or 5 g/m² rye tresse is recommended.</p> <p>These two "nurses" develop quickly, protect the young grass shoots and are no longer present in the stand after one to two years.</p> <p>NOTE: Not permitted for greening in the open landscape with native seeds!</p>
Site requirements	Extreme dry sites on alkaline soils, south-facing slopes, steep slopes, raw soils	
Load capacity	Very low	
Maintenance effort	0 - 3 cuts per year	
Cutting height	5 - 10 cm	
Nutrient requirements	If necessary, only for establishment	
Sowing rate	20 g/m ²	
Packing	10 kg bag	
45% Festuca trachyphylla BORNITO 15% Fest. rubra commutata CAPRICCIO 15% Festuca rubra rubra MAXIMA 1 10% Festuca rubra trichophylla BORLUNA 15% Lolium perenne TROYA		



Landscape Lawn Dry with Herbs

RSM 7.2.2 PS-63

Use	Slopes, extensive Utilised areas, home gardens	The varieties used, and here in particular Festuca trachyphylla, are very drought-tolerant, so that even longer dry periods are well survived. Following the wilting stress, small amounts of rainfall are sufficient for regeneration. This mixture is suitable for customers who not only want homogeneous grass stands, but also like a rich variety of herbs. In erosion-prone areas, the RSM recommends the addition of 1 g/m ² of annual ryegrass or 5 g/m ² of rye tresse. NOTE: Not permitted for greening in the open landscape with native seeds!
Site requirements	Extreme dry sites on alkaline soils, south-facing slopes, steep slopes, raw soils	
Load capacity	Very low	
Maintenance effort	0 - 3 cuts per year	
Cutting height	5 - 10 cm	
Nutrient requirements	If necessary, only for establishment	
Sowing rate	20 g/m ²	
Packing	10 kg bag	

41.9% Festuca trachyphylla BORNITO
15% Fest. rubra commutata CAPRICCIO
15% Festuca rubra rubra MAXIMA 1
10% Fest. rubra trichophylla BORLUNA
15% Lolium perenne TROYA
0.2% Achillea millefolium Yarrow 0.1%
Centaurea jacea Meadow-flower 0.1%
Centaurea scabiosa
Scabiosa flake flower 0.1%
Daucus carota Wild carrot 0.2%
Dianthus carthusianorum
Carthusian carnation
0.1% Galium album Meadow ragwort
0.1% Galium verum Common bedstraw
0.1% Leontodon species Dandelion 0.2%
Leucanthemum ircutianum
Meadow daisy
0.1% Pimpinella saxifraga Small burnet
0.1% Plantago lanceolata Ribwort plantain
0.2% Salvia pratensis Meadow sage
0.1% Sanguisorba minor Lesser Meadow-head
0.2% Anthyllis vulneraria Kidney vetch
0.2% Lotus corniculatus Horny pod clover
0.2% Medicago lupulina Yellow clover
0.8% Onobrychis viciifolia Sainfoin



Parking lot/gravel lawn with achillea

RSM 5.1.1 PS-64

Use	Gravel turf, honeycomb Grid stones, grass grids	Car park areas can be attractively landscaped with this grass mixture.
Site requirements	Without restriction	With high stress, the grasses require regular nutrient supply.
Resilience	Medium to high	
Maintenance effort	Low to medium	Achillea millefolium (yarrow) forms very fine leaves and remains green even after long dry periods.
Cutting height	30 - 40 mm	
Nutrient requirements	Low load: low High Bel.: medium	For the successful installation of a parking space/gravel lawn, the FLL Rules of Technology must be applied (see FLL brochure "Recommendations, Construction and Maintenance of Gravel Lawns").
Sowing rate	25 g/m ²	On request, this mixture is also available without Achillea millefolium as PS-66.
Packing	10 kg bag	
15% Festuca rubra rubra MAXIMA 1 13% Festuca rubra trichophylla BORLUNA 40% Lolium perenne DOUBLE 15% Poa pratensis MIRACLE 15% Poa pratensis ZEPTOR 2% Achillea millefolium (yarrow)		



Utility Turf Herbaceous Turf mit 17% Herbs

RSM 2.4 PS-55

Use	Natural grass in home gardens, public green spaces	This special utility herb lawn contains 20 species of flowers and herbs that transform the garden into a colourful and flowering natural lawn and encourage insect flight.
Habitat requirements	sunny, preferred lean locations	
Resilience	Medium	The special feature of this mixture, in contrast to the flower meadow, is a significantly lower growth height of approx. 30-50 cm. It is also very low-maintenance compared to a pure utility lawn and 4-8 cuts per year are sufficient, which can be carried out with the lawn mower.
Maintenance effort	4 - 8 cuts with Lawn mower	
Cutting height	Not less than 5 cm	After cutting, allow the cuttings to dry so that the seeds fall to the ground and only then remove the cuttings. Especially if you like your garden a little more natural, but still want to use the area, this mixture is ideally suited.
Nutrient requirements	Low	
Sowing rate	10 g/m ²	
Packing	10 kg bag	
10% Festuca trachyphylla CRYSTAL 20% Fest. rubra commutata CAPRICCIO 20% Festuca rubra rubra MAXIMA 1 15% Fest. rubra trichophylla BORLUNA 3% Lolium perenne TROYA 15% Poa pratensis MIRACLE 0.5% Achillea millefolium 0.3% Bellis perennis 0.5% Centaurea jacea 0.5% Crepis capillaris 1.0% Dianthus deltoides 0.2% Galium mollugo 0.2% Galium verum 0.5% Leontodon autumnalis 0.8% Leontodon hispidus 2.0% Leucanthemum vulgare 1.0% Plantago lanceolata 0.5% Potentilla verna 2.0% Prunella vulgaris 1.5% Salvia pratensis 1.0% Sanguisorba minor 1.5% Thymus pulegioides 1.0% Lotus corniculatus 0.5% Medicago lupulina 1.0% Trifolium incarnatum 0.5% Trifolium pratense		



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Flowers, herbs, biotopes

Herb mixture for dry locations

PS-70

Use	Extensively used areas	3.0% Achillea millefolium Yarrow 10% Agrimonia eupatoria agrimony 0.3% Campanula rotundifolia Round-leaved bellflower 4.0% Centaurea cyanus Cornflower 7.0% Centaurea pannonica Narrow-leaved knapweed 2.0% Centaurea scabiosa Scabiosa flake flower 4.0% Cichorium intybus Common Chicory 4.0% Daucus carota Wild carrot 2.3% Dianthus carthusianorum Carthusian carnation 1.7% Dianthus deltoides Heath carnation 1.0% Echium vulgare Common viper's bugloss 3.0% Galium album Meadow ragwort 6.0% Galium verum agg. bedstraw 2.0% Hypericum perforatum St. John's wort 2.0% Knautia arvensis Field widow's-flower 6.0% Leucanthemum ircutianum Meadow daisy 0.2% Linaria vulgaris Common toadflax 0.5% Origanum vulgare Brown thistle 1.0% Pimpinella saxifraga Small burnet 5.0% Prunella vulgaris Common burnet 9.0% Salvia pratensis Meadow sage 10% Sanguisorba minor ssp. minor Creeping Meadow Buttercup 6.0% Silene latifolia subsp. alba White campion 1.0% Silene nutans Nodding Catchfly 8.0% Silene vulgaris Common Catchfly 1.0% Thymus pulegioides Wild Thyme
Site requirements	Dry sites up to 800 m a.s.l.	
Resilience	Do not strain as much as possible	
Maintenance effort	Very low	
Cutting height	Not less than 5 cm, cut once or twice a year	
Nutrient requirements	Very low	
Seed rate	2 g/m ²	
Height of growth	Medium	
Packing	As desired	



Herb mixture for fresh sites

PS-71

Use	Extensively used areas	3.0% Achillea millefolium Yarrow 8.5% Anthriscus sylvestris Meadow chervil 4.0% Barbarea vulgaris s.str. Common barbery 0.2% Campanula patula Meadow bellflower 7.5% Carum carvi caraway seed 13% Centaurea jacea Meadow-flower 4.0% Crepis biennis Meadow pipit 8.0% Galium album Meadow ragwort 2.0% Geranium pratense Meadow cranesbill 9.0% Leucanthemum ircutianum Meadow daisy 5.0% Lychnis flos-cuculi Cuckoo's light carnation 10% Prunella vulgaris Common burnet 1.0% Pimpinella major Large burnet 2.0% Ranunculus acris Sharp buttercup 2.0% Rumex acetosa Sorrel 1.0% Sanguisorba officinalis Large meadow buttercup 2.0% Scorzoneroideis autumnalis Autumn Dandelion 13% Silene dioica Red campion 0.8% Stellaria graminea Grass stitchwort 4.0% Tragopogon pratensis Meadow goat's beard
Site requirements	Dry to fresh sites up to 800 m a.s.l.	
Resilience	Do not strain as much as possible	
Maintenance effort	Very low	
Cutting height	Not less than 5 cm, cut once or twice a year	
Nutrient requirements	Very low	
Seed rate	2 g/m ²	
Height of growth	Medium	
Packing	As desired	



Herb mixture annual

PS-75

Use	Extensively used areas	2.0% Adonis aestivalis Summer Adonis Rose
Site requirements	Without restriction	30% Agrostemma githago Corn cockle 3.0% Anthemis arvensis Field chamomile 5.0% Bupleurum rotundifolium Round-leaved hare's ear
Resilience	Do not strain as much as possible	5.0% Calendula arvensis Field marigold 26% Centaurea cyanus Cornflower 3.0% Consolida regalis Field delphinium 4.5% Glebionis segetum Seed-flower 0.5% Legousia speculum-veneris Real women's mirror
Maintenance effort	Very low	2.0% Lithospermum arvense Field Stone Seed
Cutting height	Not less than 5 cm	1.0% Myosotis arvensis Field forget-me-not
Nutrient requirements	Very low	1.0% Papaver dubium seed poppy 4.0% Papaver rhoeas Corn poppy 4.0% Ranunculus arvensis Field buttercup 3.0% Silene noctiflora Field campion 2.0% Sinapis arvensis Field mustard 2.0% Valerianella carinata Calked lamb's lettuce 2.0% Viola arvensis Field violet
Seed rate	In combination with perennial species 2 g/m ² Pure seed or spot islands 5 g/m ²	
Packing	As desired	
This mixture contains attractive annual species that are rarely found nowadays.		

In our view, they do not deserve to disappear completely from the landscape. If there is no shallow soil cultivation after the natural seed loss, they will be displaced by more competitive perennial species in the following years.

We recommend a combination with our perennial herb mixtures (PS-70 and PS-71), some of which do not flower until the second year of growth, or a selective sowing of PS-75 in small islands.



Planting wildflower meadows

Soil cultivation

The soil should be ploughed (before winter) or milled before replanting. Subsequently, a fine crumbly soil structure is produced with a harrow or roundabout harrow. After this soil preparation, the soil should be allowed to settle for some time (approx. 2-3 weeks). In the case of areas contaminated with weeds, a black fallow (fallow kept free of vegetation) should be carried out before sowing.

Sowing

Sowing times: February to May and August to October.

Preferably, sowing should take place before the onset of wet weather. Wildflower and wild grass seedlings need at least 3 weeks of continuous moisture to swell optimally and germinate. If there is no rain and germination has already started, the soil should be watered thoroughly every 2 to 3 days (if possible).

Sowing is done by hand or, on large areas, with sowing machines. The seed must not be worked into the soil, as wildflower mixtures contain many light germinators and the seed must therefore not be covered with soil. When using seed drills or lawn cultivators, the harrow and sowing coulters must therefore be folded up! When sowing by hand, walk in a crosswise direction over the area and sow half of the seed evenly over the area once lengthwise and once crosswise.

The absolutely necessary rolling of the seed on the surface ensures the required soil contact, easy incorporation and uniform germination. Güttler and Cambridge rollers or a lawn roller are suitable for smaller areas. For small areas in private gardens, the seed can be pressed on with a shovel.


Seeding strength

Always follow the sowing rate recommended by the manufacturer. Much does not help much in the case of wildflowers! Seeds sown too close together will hinder each other's growth! For easier sowing, the seed can be stretched to 10 g/m² with dry sand, sawdust or soybean meal.

Initial care

After approx. 6 to 8 weeks after sowing, a first so-called cupping cut (maintenance cut) is absolutely necessary (not deeper than 5 cm). This should be repeated once or twice in the first year after sowing if necessary and if weeds grow up again. **Please request our detailed 2-page sowing instructions!**

Attention: Please observe the legal situation when using wild plant mixtures in the open countryside! The responsibility for the application of seeds lies with the user.

Use	Biotopes, hardroughs, extensively used	100% flowers 1.20% Achillea millefolium Common yarrow 5.00% Agrimonia eupatoria Lesser agrimony 0.30% Ballota nigra Common black nettle 2.00% Barbarea vulgaris Common barbara 1.00% Betonica officinalis Medicinal cress 0.10% Campanula patula Meadow bellflower 0.10% Campanula persicifolia Peach-leaved bellflower 0.10% Campanula rapunculoides Field bellflower 0.10% Campanula rotundifolia Round-leaved bellflower 0.10% Campanula trachelium Nettle-leaved bellflower 0.50% Carduus nutans Nodding thistle 4.50% Carum carvi Meadow caraway 7.00% Centaurea cyanus Cornflower 5.00% Centaurea jacea Meadow knapweed 1.50% Centaurea scabiosa Scabious knapweed 3.00% Cichorium intybus Common chicory 0.80% Clinopodium vulgare Common tanglewort 2.50% Daucus carota Wild carrot 1.50% Dianthus carthusianorum Carthusian carnation 0.30% Dipsacus fullonum Wild Cardoon 2.00% Echium vulgare Common viper's bugloss 2.00% Galium album White bedstraw 2.00% Galium verum Common bedstraw 1.50% Hypericum perforatum St John's wort 0.70% Hypochaeris radicata Common pigletweed 1.50% Knautia arvensis Field widow's-flower 0.80% Leonurus cardiaca Real heartwort 3.00% Leucanthemum ircutianum/vulgare Meadow daisy 0.20% Linaria vulgaris Common toadflax 2.00% Lotus pedunculatus Swamp pod clover 1.00% Malva alcea Pointed-leaf mallow 4.00% Malva moschata Musk mallow 3.00% Malva sylvestris Wild mallow 0.40% Origanum vulgare Common thistle 0.50% Papaver dubium seed poppy 1.50% Papaver rhoeas Corn poppy 1.00% Pastinaca sativa Common parsnip 0.50% Picris hieracioides Common bitterweed 3.00% Plantago lanceolata Ribwort 0.30% Plantago media Medium plantain 0.20% Potentilla argenta Silver cinquefoil 0.20% 0.40% Primula veris Cowslip 5.00% Prunella vulgaris Common Brownelle 0.50% Reseda lutea Yellow Reseda 5.00% Salvia pratensis Meadow sage 2.00% Saponaria officinalis True soapwort 0.50% Scabiosa columbaria Pigeon cabbage 1.00% Scorzoneroideis autumnalis Autumn Dandelion 1.00% Scrophularia nodosa knot brownroot 2.50% Silene dioica Red campion 4.00% Silene latifolia ssp. alba White campion 3.50% Silene vulgaris Common campion 2.00% Sinapis arvensis Field mustard 0.30% Solidago virgaurea Common goldenrod 0.50% Stachys sylvatica Wood-peat 0.10% Tanacetum vulgare Tansy 0.20% Thymus pulegioides Common thyme 1.50% Tragopogon pratensis Meadow goat's-beard 0.50% Trifolium medium Medium clover 0.50% Verbascum nigrum Black mullein 1.00% Verbascum thapsus Kleinbl. Mullein	
Site requirements	Lean dry Locations		
Load capacity	Very low		
Maintenance	1 cut in spring		
Cutting height	Not less than 5 cm		
Height of growth	approx. 60 - 140 cm		
Sowing rate	2 g/m²		
Packing	As desired		
<p>By sowing a butterfly-wild bee seed mixture you can make an active contribution to the preservation of these endangered insect species. The mixture consists of 100% wildflowers and takes special account of the requirements of wild bees and butterflies in terms of their foraging plants.</p> <p>A long flowering aspect combined with some early flowering species, such as Barbara weed, to mid-summer species (chicory and mallow) guarantees a continuous source of collection.</p> <p>Some annual species ensure that an attractive stand is already established from the first year. In the following years, they are replaced by perennial species. Winter hosts provide perching sites for birds and the seeds are a much sought-after winter food.</p>			





Shoreline	PS-80
Seed rate	2 g/m ²
Packing	As desired
Especially for wet sites such as banks, swamps and wet depressions.	
Contains 50% flowers such as marsh yarrow, frogspoon, forest angelica, meadow chervil, barba-rabweed, snake's knotweed, marsh marigold, bulbous calf's crook, cabbage thistle, marsh thistle, meadow pippa, shaggy willowherb, water astragal, meadowsweet, white ragwort, marsh r a g w o r t , m a r s h cranesbill, brook hellebore, winged St. John's wort, yellow iris, marsh pod clover, cuckoo c a r n a t i o n , wolfbane, loosestrife, purple loosestrife, horse mint, greater burnet, ribwort, meadow sorrel, great creeping knapweed, brown butterwort, marsh hellebore, caraway sedge, red campion, marsh cistus, devil's-bit, valerian, creeping speedwell.	
50% grasses such as giant bentgrass, meadow foxtail, sloping sedge, fox sedge, lawn fescue, reed fescue, meadow fescue, woolly honey grass, flutter brome, German ryegrass, common moor-grass, marsh meadow-grass, wood sorrel, golden oats	



Heat-loving hem	PS-82
Sowing rate	2 g/m ²
Packing	As desired
Sunny margins along hedges, paths, walls and house walls. Mowing in late autumn or better in spring.	
In case of heavy weediness, cupping cuts are necessary in the first year.	
Consisting of 58 species of flowers and herbs such as yarrow, agrimony, ox tongue, dyer's chamomile, knotweed, columbine, calcareous aster, black nettle, willow-leaved cowslip, field cinquefoil, tufted bellflower, rapunzel bellflower, Scabiosa bellflower, Panicle b e l l f l o w e r , Chicory, Field knight's-tail, Hound's-tongue, Wild carrot, Carthusian carnation, Magnificent carnation, Viper's-head, Lesser meadowsweet, Golden aster, Night violet, St. John's wort, Dyer's woad, Field widow's-eye, Heartwort, Marguerite, Linseed, Austrian Flax, Pointed-leaved Mallow, Musk Mallow, Two-year-old Evening Primrose, Dost, Corn Poppy, Parsnip, Lesser Cranberry, Cowslip, Yellow Medick, Dyer's Medick, Little Rattlespot, Meadow Sage, Meadow sage, Lesser meadow-head, Soapwort, Pigeon-cabbage, White campion, Gluebush, Goldenrod, Bunch-flowered u s h e r w o r t , S m a l l c l o v e r , Long-stemmed clover, Small-flowered mullein, Black mullein, Verbena, Speedwell	



Wet meadow	PS-83
Sowing rate	2 g/m ²
Packing	As desired
For moist, fresh, moderately nutrient-rich sites.	
Predominantly perennial moisture-loving herbs and grasses with medium to low-growing species.	
30% flowers such as yarrow, marsh yarrow, wood angelica, Barbara's wort, medicinal zest, meadow foamwort, meadow caraway, c o r n f l o w e r , meadow knapweed, cabbage thistle, meadow pippa, Meadow meadowsweet, White bedstraw, Marsh bedstraw, Meadow cranesbill, Brook carnationwort, Meadow hogweed, St. John's wort, Meadow vetchling, Meadow d a i s y , Marsh pod clover, Cuckoo's bane, Meadow cuckoo's bane. Champion, purple loosestrife, corn poppy, greater beaver, r i b w o r t , common chickweed, buttercup, meadow sorrel, greater meadow knapweed, autumn dandelion, meadow sedge, red campion, grass stitchwort, devil's-bit, red clover	
70% Grasses such as Giant Ostrich Grass, Meadow Foxtail, Ryegrass, Smooth Oats, Hare's Foot Sedge, Fox Sedge, Pasture Crested Grass, Meadow Fescue, Horst Red Fescue, Woolly Honeygrass, Swamp Ricegrass, Meadow Grass, Golden Oats	



Use	Hardroughs, wayside Greening, conversion from arable land to grassland
Site requirements	Very nutritious
Locations	
Load capacity	Very low
Maintenance required	2 - 3 cuts per year
Cutting height	Not less than 5 cm
Height of growth	approx. 80 - 120 cm
Sowing rate	3 g/m ²
Packing	As desired

This mixture is used on fresh, nutrient-rich sites, when converting from arable land to meadows and pastures, as marginal strips along fields and field paths or under litter fruit stands. Do not use the first maintenance cut, after that the growth can be fed.

Mowing three times a year in June, August and October promotes this species-rich meadow community.

Also available with 15% flowers and 85% grasses.

30% Flowers

- 1.00% Achillea millefolium Common yarrow
- 0.50% Anthriscus sylvestris Meadow chervil
- 0.10% Campanula patula Meadow bellflower
- 2.50% Carum carvi Meadow cumin
- 2.00% Centaurea cyanus Cornflower
- 2.00% Centaurea jacea Meadow knapweed
- 0.70% Crepis biennis Meadow Pippa
- 1.80% Daucus carota Wild Carrot
- 2.00% Galium album White Bedstraw
- 0.40% Heracleum sphondylium Meadow hogweed
- 1.00% Knautia arvensis Field widow's-flower
- 0.30% Leontodon hispidus Rough dandelion
- 2.50% Leucanthemum ircutianum/vulgare Meadow daisy
- 1.20% Lotus corniculatus Horny-pod clover
- 0.50% Lychnis flos-cuculi Cuckoo's campion
- 0.50% Malva moschata Musk mallow 1.00% Papaver rhoeas Corn poppy
- 0.40% Pimpinella major Large burnet 2.50% Plantago lanceolata Ribwort plantain 1.30% Prunella vulgaris Common burnet 0.80% Rumex acetosa Meadow sorrel 1.00% Salvia pratensis Meadow sage
- 0.40% Sanguisorba officinalis Gr. meadow-herb
- 0.30% Scorzonoides autumnalis Autumn Dandelion
- 0.50% Silene dioica Red campion
- 1.00% Silene vulgaris Common campion 1.20% Tragopogon pratensis Meadow goat's beard 0.60% Trifolium pratense Red clover

70% Grasses

- 2.00% Agrostis capillaris Red bunchgrass
- 3.00% Alopecurus pratensis Meadow foxtail
- 4.00% Anthoxanthum odoratum Common bentgrass
- 2.00% Arrhenatherum elatius Smooth oat
- 4.00% Bromus hordeaceus Soft trespass
- 5.00% Cynosurus cristatus Crested meadow grass 2.00% Dactylis glomerata Common knotgrass
- 8.00% Festuca pratensis Meadow fescue
- 17.0% Festuca rubra Horst red fescue 2.00% Helictotrichon pubescens Downy meadow oat
- 5.00% Lolium perenne German Ryegrass
- 13.0% Poa angustifolia Narrow-leaved meadow grass
- 3.00% Trisetum flavescens Golden oats



Use	Everywhere in the settlement area
	rich in borders, house walls, wall feet
Site requirements	Nutrient-rich and -low locations
Resilience	Low
Maintenance effort	1 cut per year
Cutting height	Not less than 5 cm
Height of growth	approx. 80 - 120 cm
Sowing rate	2 g/m ²
Packing	As desired

This colourful flower mix can be used anywhere in urban areas, e.g. in borders, on house walls, at the foot of walls and along paths, and is suitable for quick planting for a period of 1 to 5 years.

This is an attractive annual or biennial mixture with a long flowering season from May to October.

The species used come from the areas of arable flora and short-lived ruderal vegetation. Mowing should be carried out in late autumn with shaking out the seed pods and shallow raking of the seed with subsequent clearing of the mown material.

100% flowers

- 14.0% *Agrostemma githago* Corn cockle
- 2.00% *Alyssum alyssoides* Calyx stonewort
- 3.00% *Anthemis arvensis* Field dog chamomile
- 2.00% *Anthemis tinctoria* Dyer's chamomile
- 1.00% *Barbarea vulgaris* True barbara herb
- 2.50% *Bupleurum rotundifolium* Round-leaved hare's ear
- 3.90% *Calendula arvensis* Field marigold
- 0.20% *Campanula rapunculus* Rapunzel bellflower
- 9.00% *Centaurea cyanus* Cornflower
- 0.10% *Centaurium erythraea* Centaury
- 4.00% *Consolida regalis* Field delphinium
- 3.60% *Cynoglossum officinale* Common houndtongue
- 3.00% *Daucus carota* Wild carrot
- 1.20% *Dianthus armeria* Rough carnation
- 2.40% *Digitalis purpurea* Red foxglove
- 0.30% *Dipsacus fullonum* Wild cardoon
- 3.00% *Echium vulgare* Common viper's bugloss
- 2.00% *Erysimum hieraciifolium* Fragrant wallflower
- 1.50% *Falcaria vulgaris* Sickle carrot
- 3.00% *Glebionis segetum* Seed useweed
- 2.00% *Hesperis matronalis* Common night violet
- 1.50% *Isatis tinctoria* Dyer's woad
- 0.30% *Legousia speculum-veneris* Real women's mirror
- 1.50% *Leucanthemum ircutianum/vulgare* Marguerite
- 4.00% *Linum austriacum* Austrian flax
- 1.00% *Lithospermum arvense* Field stone seed
- 5.00% *Malva sylvestris* Wild mallow
- 0.30% *Melampyrum arvense* Quail wheat
- 0.50% *Myosotis arvensis* Field forget-me-not
- 2.50% *Oenothera biennis* Two-year-old evening primrose
- 1.50% *Papaver dubium* Seed poppy
- 2.00% *Papaver rhoeas* Corn poppy
- 1.50% *Pastinaca sativa* Common parsnip
- 0.50% *Petrorhagia prolifera* Sprouting rock carnation
- 2.00% *Ranunculus arvensis* Field buttercup
- 1.00% *Reseda luteola* Dyer's Reed
- 3.50% *Silene latifolia* ssp. alba White campion
- 3.00% *Silene noctiflora* Field campion
- 0.50% *Trifolium arvense* Hazel clover
- 2.00% *Verbascum thapsus* Small-flowered mullein
- 0.70% *Verbascum lychnitis* Mealy mullein
- 1.50% *Viola arvensis* Field violet



Use	Extensively used areas, non-playable hardroughs	Flowers 50% 1.00% Achillea millefolium Common yarrow 2.00% Agrimonia eupatoria Small agrimony 0.40% Betonica officinalis Medicinal zest 0.20% Campanula glomerata Tufted bellflower 0.10% Campanula patula Meadow bellflower 0.10% Campanula rotundifolia Round-leaved bellflower 2.00% Carum carvi Meadow cumin 2.00% Centaurea cyanus Cornflower 2.50% Centaurea jacea Meadow knapweed 1.00% Centaurea scabiosa Scabiosa flakeflower 1 .00% Crepis biennis Meadow pippa 1 . 50% Daucus carota Wild carrot 1 . 50% Galium album White bedstraw 1.00% Galium verum True bedstraw 0.50% Geranium pratense Meadow cranesbill 0.50% Hypericum perforatum St John's wort 2.00% Knautia arvensis Field widow's-flower 0.50% Lathyrus pratensis Meadow vetchling 1.20% Leontodon hispidus Rough dandelion 3.00% Leucanthemum ircutianum/vulgare Meadow daisy 1.50% Lotus corniculatus Horny-pod clover 1.00% Lychnis flos-cuculi Cuckoo's campion 1 . 50% Malva moschata Musk mallow 1.50% Papaver rhoeas Corn poppy 0.40% Pimpinella major Large burnet 2.10% Plantago lanceolata Ribwort plantain 0.40% Plantago media Medium plantain 0.40% Primula veris Cowslip 2.00% Prunella vulgaris Common brownelle 0.40% Ranunculus acris Sharp buttercup 0.50% Ranunculus bulbosus Bulbous buttercup 0.80% Rhinanthus minor Small rattle pot 1.00% Rumex acetosa Meadow sorrel 3.00% Salvia pratensis Meadow sage 3.00% Sanguisorba minor Small meadow-head 0.30% Sanguisorba officinalis Gr. meadow-head 1.00% Scorzoneroide autumnalis Autumn Dandelion 1.00% Silene dioica Red campion 1.50% Silene vulgaris Common campion 0.20% Stellaria graminea Grass stitchwort 2.00% Tragopogon pratensis Meadow goat's beard 0.50% Vicia cracca Bird's vetch	Grasses 50% 2.00% Agrostis capillaris Red bunchgrass 2.00% Alopecurus pratensis Meadow foxtail 4.00% Anthoxanthum odoratum Common bentgrass 1.00% Arrhenatherum elatius Smooth oat 2.00% Briza media Common quaking grass 3.00% Bromus erectus Erect trespass 5.00% Bromus hordeaceus Soft trespass 5.00% Cynosurus cristatus Crested meadow-grass 5.00% Festuca guestfalica (ovina) Sheep fescue 2.00% Festuca pratensis Meadow fescue 11.0% Festuca rubra Horstschwingel 1.00% Helictotrichon pubescens Downy meadow oat 4.00% Poa angustifolia Narrow-leaved grass. Meadow grass 3.00% Trisetum flavescens Golden oats
Site requirements	Nutrient-poorer Locations		
Resilience	Very low		
Maintenance effort	2 - 3 cuts per year		
Cutting height	Not less than 5 cm		
Height of growth	approx. 80 - 100 cm		
Seed rate	3 g/m²		
Packing	As desired		
Colourful flowering, species-rich flower meadow with low to high-growing species; lower and middle grasses.			
Already in the first year, the poppy blossom provides an attractive flowering aspect.			
In the second year after sowing, daisies and bluebells blossom.			
Later, sage, knapweed and goatsbeard will characterise the face of the colourful flower meadow. It is essential to clear the mown area in order to counteract excessive nutrient recycling.			
Also suitable for playing and storage in spring and after mowing			



Use	Extensively used areas, non-playable hardroughs, home gardens
Site requirements	On lean and Leanest, sandy soils
Resilience	Very low
Maintenance effort	1 - 2 cuts per year
Cutting height	Not less than 5 cm
Height of growth	approx. 60 - 100 cm
Seed rate	3 g/m ²
Packing	As desired

This mixture consists mainly of low-growing, low-competition species that are very drought-tolerant and thrive on the poorest soils.

It takes several years until all species are ready to flower. Due to the proportion of pioneer species and annual acceptance species, greening with an attractive flowering aspect is already guaranteed in the first year.

The mixture flowers from early spring until late autumn. We recommend mowing once or twice a year (July/September).

50% flowers

1.00% *Achillea millefolium* Common yarrow
 2.50% *Agrimonia eupatoria* Lesser agrimony
 0.50% *Betonica officinalis* Medicinal zest
 0.20% *Campanula rapunculoides* Field bellflower
 0.20% *Campanula rotundifolia* Round-leaved bellflower
 3.00% *Centaurea cyanus* Cornflower
 2.00% *Centaurea jacea* Meadow knapweed
 1.50% *Centaurea scabiosa* Scabious knapweed
 0.50% *Clinopodium vulgare* Common whorlwort
 1.00% *Daucus carota* Wild carrot
 1.00% *Dianthus carthusianorum* Carthusian carnation
 1.60% *Echium vulgare* Common viper's bugloss
 0.20% *Euphorbia cyparissias* Cypress spurge
 1.00% *Galium album* White bedstraw
 1.00% *Galium verum* Common bedstraw
 0.20% *Hieracium pilosella* Lesser hawkweed
 0.50% *Hypericum perforatum* St John's wort
 1.20% *Hypochaeris radicata* Common piglet weed
 0.50% *Inula conyzae* Dryroot Atlantis
 2.00% *Knautia arvensis* Field widow's-flower
 1.20% *Leontodon hispidus* Rough dandelion
 2.00% *Leucanthemum ircutianum/vulgare* Meadow daisy
 0.30% *Linaria vulgaris* Common toadflax
 1.00% *Lotus corniculatus* Horny pod clover
 1.00% *Malva alcea* Pointed-leaf mallow
 1.50% *Malva moschata* Musk mallow
 1.00% *Medicago lupulina* Yellow clover
 0.30% *Origanum vulgare* Common thistle
 1.00% *Papaver dubium* seed poppy
 0.50% *Papaver rhoeas* Corn poppy
 0.50% *Pastinaca sativa* Common parsnip
 0.40% *Picris hieracioides* Common bittercress
 0.80% *Pimpinella saxifraga* Small saxifrage
 1.60% *Plantago lanceolata* Ribwort
 0.40% *Plantago media* Medium plantain
 0.20% *Potentilla verna* Spring cinquefoil
 0.40% *Primula veris* Cowslip
 0.50% *Prunella grandiflora* Large-flowered burnet
 1.00% *Prunella vulgaris* Common burnet
 1.00% *Ranunculus bulbosus* Bulbous buttercup

0.50% *Reseda lutea* Yellow Reseda
 0.50% *Rhinanthus minor* Small Rattle Pot
 2.30% *Salvia pratensis* Meadow sage
 2.50% *Sanguisorba minor* Lesser meadow-herb
 0.70% *Saponaria officinalis* Common soapwort
 0.30% *Scabiosa columbaria* Pigeon-sedge
 0.10% *Sedum acre* Sharpened wall-pepper
 1.50% *Silene latifolia* ssp. *alba* White campion
 0.50% *Silene nutans* Nodding campion
 1.70% *Silene vulgaris* Common campion
 0.40% *Thymus pulegioides* Common thyme
 0.30% *Trifolium campestre* Field clover
 0.50% *Verbascum nigrum* Black mullein

50% grasses

2.00% *Agrostis capillaris* Red bunchgrass
 5.00% *Anthoxanthum odoratum* Common bentgrass
 4.00% *Briza media* Common Quaking Grass
 6.00% *Bromus erectus* Upright Trefoil
 1.00% *Carex flacca* Blue-green Sedge
 11.0% *Festuca guestfalica* (ovina) Sheep fescue
 5.00% *Festuca rubra* Red fescue
 2.00% *Helictotrichon pratense* Echt. Meadow Oats
 2.00% *Koeleria pyramidata* Greater Schillergrass
 1.00% *Luzula campestris* Common Creeping Milfoil
 6.00% *Poa angustifolia* Narrow-leaved Meadowgrass
 5.00% *Poa compressa* Common bluegrass
 5.00% *Poa*



Permanent agricultural meadow

PS-77

Sowing rate	5 - 7 g/m²	5% Meadow fescue
Packing	12 kg bag	17% German Ryegrass
A meadow mixture for hay production with high, nutrient-rich leaf mass formation.		15% German Ryegrass
The mixture is persistent and the		12% German Ryegrass
		4% German Ryegrass
		13% timothy grass
		6.5% Meadowgrass
		18% Red fescue
Clover is a tasty, protein-rich feed component for cows.		5% Red clover
		4.5% White clover
The use of German ryegrass guarantees a treadable and regenerative grass stand.		



Horse pasture mixture with/without herbs

PS-78

Seed rate	5 g/m²	13% timothy grass
Packing	12 kg bag	10% Meadow fescue
A healthy, tasty feed for your horses in pasture.		10% German Ryegrass
The addition of herbs significantly improves the mineral supply.		7% German Ryegrass
		14% German Ryegrass
		18% Red fescue
		15% Meadowgrass
		5% Tall fescue
		4% Cocksfoot
		4% Welsh ryegrass
A high proportion of ryegrass makes this horse pasture very tread tolerant and also ensures rapid regeneration.		also with herbs if desired:
This mixture can also be used for haymaking.		Meadow fennel, meadow caraway, wild carrot, ribwort, meadow-head, meadow-warbler





Turf

Turf for utility, sports and golf lawns

Play and utility turf

For private gardens, lawns, golf fairways, public green spaces and traffic green spaces. Suitable for normal loads, grown on humus-rich soils.

- ▶ With *Poa pratensis*, *Festuca rubra* spp with or without *Lolium perenne*

Turf Sport

For moderately to heavily polluted sports fields, stadiums, riding arenas, tees and heavily polluted public green areas. Grown on permeable sandy soils.

Available in the following versions:

- ▶ With *Poa pratensis*, *Lolium perenne* and possibly a small amount of *Festuca rubra* spp.
- ▶ Pure *Poa pratensis*

Turf for tees and heavily used sports fields

Suitable for heavily used sports fields and in golf for tee-offs. Drawn on DIN ground.

Available in the following versions:

- ▶ With *Poa pratensis*, *Lolium perenne* and possibly a small amount of *Festuca rubra* spp.
- ▶ Pure *Poa pratensis*

Heat and drought tolerant turf (with tall fescue)

For home gardens, semiroughs, fairways without irrigation, south-facing slopes, also suitable for southern/mediterranean countries. Likes heat and drought, but also tolerates shade.

- ▶ With *Festuca arundinacea* and *Poa pratensis*

Turf with *Poa supina* (also suitable for shade)

Suitable for semi-shady sites, but also loves absolute sun. For tees, fairways and home gardens. Grown on sandy or humic soil.

- ▶ With *Poa supina*, *Poa pratensis*, *Lolium* and *Festuca rubra* spp.

Turf for greens

- ▶ With 100% *Agrostis stolonifera*

Turf for self-collectors

Collection ex warehouse Kusterdingen

As part of a collective order, we offer our customers in the Stuttgart, Tübingen and Reutlingen area low-priced small quantities of turf for self-collection.

On request, you will be informed of the next possible collection date.



Delivery

Roll sizes	Standard	Centre roller
	0.6 m x 1.67 m = 1 m ² 0.4 m x 2.5 m = 1 m ²	0.6 m x up to 16 m or (only with laying)
Pallet size	approx. 50 - 60 m ² depending on production	
Peel thickness	approx. 2.0 cm (+/- 5 mm)	
Weight	approx. 20 - 25 kg per m ² depending on moisture content	





08

11

Care products, tools

Magnum Wetting Agents: tested by our customers

Indigrow's innovative and powerful Wetting Agents Magnum offer the solution to every type of dry spot problem, either alone or combined in specially tailored care programmes.

- Elimination of hydrophobic soil conditions
- Improvement of the water and air balance in the soil
- Even moistening of the root zone
- Improved nutrient availability
- Improved stress tolerance of lawn grasses
- Reduction of susceptibility to typical diseases

Many golf clubs in Germany have tested the products for us in recent years and without exception found them to be very good. Choose the products that suit your needs or contact us if you need more information about our Magnum products.



Dry spots before treatment



7 days after application of Magnum CO

Magnum 357 Calibre

So that dry spots do not occur in the first place!

Magnum 357 Calibre, the new generation of water management on lawns.

Magnum 357 Calibre combines three different wetting agent technologies, which ensure an even application of the wetting agent on the lawn surface, improve the penetration of the water and additionally provide optimal moisture retention through the use of block copolymers.

Magnum 357 Calibre regulates water holding capacity to achieve a uniform moisture content in the turf base layer (RTS), thus retaining water in the substrate at a molecular level.

Once the ideal 15-20% moisture content in the RTS is reached, Magnum 357 Calibre ensures uniform water drainage in the root zone to prevent waterlogging.

- Stores water in the root zone for improved plant health
- Prevents dry spots
- Improves root mass and root length



Application		Quantity	Litre water
First application	March/April	20 litres/ha	300-600 litres
Second application	4 weeks later	10 litres/ha	300-600 litres
Follow-up applications	Every 4-6 weeks	10 litres/ha	300-600 litres
Packaging	10 litre canister (original container 2 x 10 litres)		

04

Magnum CO

Immediate help when the first LDS symptoms appear

Magnum CO is ideal for combating existing dry spots due to its special 3-fold formulation.

The penetration component supports the penetration of the product into the floor despite existing dry stains. A modified acrylic polymer ensures the breakdown of unwanted waxes that coat the soil particles. Finally, the stable synthetic acid Syntech causes the dissolution of troublesome carbonates and bicarbonates. The result is a water- and oxygen-absorbing soil that significantly improves the health of the grasses.

Magnum CO is ideally suited for combined use with Magnum 357 Calibre.

- If dry spots, grass wilt, water repellent soils have already occurred, then Magnum CO is exactly the right immediate aid for your greens and tees.
- Magnum CO eliminates hydrophobic soil conditions, allows water to penetrate evenly and thus ensures rapid recovery of the damaged turf.



Application	Quantity	Litre water
First application	April/May/June/July	20 litres/ha
Second application	4 weeks later	10 litres/ha
Follow-up applications	Every 4-6 weeks	10 litres/ha
Packaging	10 litre canister (original container 2 x 10 litres)	

Magnum Granular

For prevention and immediate help

Magnum Granular is an innovative spreadable wetting agent that provides rapid rewetting of existing dry spots or water repellent surfaces.

Magnum Granular can be applied either once a month as a preventive measure or directly when a drought stress problem already exists. For a longer lasting effect, application during spiking or aeration is recommended.

Application: For golf greens, heavily modelled areas, tees, bunker edges and fairways.

- Magnum Granular consists of fully biodegradable paper pellets containing a generation of effective modern wetting agents based on modified organic siloxanes.
- This novel formulation makes the effect of Magnum Granular particularly effective.



Quantity	Application
10 g/m ² , 100 kg/ha	First cut grasses to the desired length. After application, so a k for at least 5 - 10 minutes so that the active ingredient is washed out of the substrate. Do not cut golf greens again until at least 24 hours after application.
Packaging	10 kg bucket

Magnum Liquid Pro

Mixing shower

Magnum Liquid Pro is suitable for the application of liquid wetting agents, fertilisers and other liquids.

The ergonomic nylon lightweight construction of "Magnum Liquid Pro" with the stable 1.25 litre bottle and the precision metering valve allow perfect handling and exact application on an area of 300 m² in just a few minutes.



Packing 1 pc. Hand shower, approx. 1.5 kg
Stopcock and GK coupling included in delivery.

Hand shower and pellets

Retain-Max pellets cause faster penetration of water into dry, water-repellent soil and the water storage capacity of the topsoil is improved.

Particularly suitable for the control of local dry spots (LDS) on greens, pre-greens and bunker slopes.

One Retain Max pellet dissolves in approx. 30 to 60 minutes under normal water pressure, and is sufficient for a treatment of approx. 3 to 4 greens.



Packing 1 pc. Hand shower (GK connection possible)

Packing 12 pcs. Retain Max pellets in outer carton

SEAWEED Wetting Agent Pellets

The pellets ensure an even distribution of water in the soil profile, increase water penetration and help to moisten hydrophobic soils. Through the targeted application on problem sites, an economical and precise treatment is possible.

In addition, the Seaweed Pellets contain high-quality algae extracts that also promote the recovery of stressed grasses and stimulate root growth. The result is an increased stress tolerance and improved vitality of the greens.

One pellet is sufficient for approx. 4-6 greens and dissolves completely after approx. 1 hour, depending on water pressure, water hardness, temperature and flow rate. The pellets fit into most commercially available applicators.



Packing 6 Seaweed pellets per box

08



Magnum Forty-Four

Help with waterlogging

MAGNUM FORTY-FOUR is a highly effective infiltration wetting agent for improving water permeability on golf and sports turf surfaces. MAGNUM FORTY-FOUR is especially suitable for use on impermeable turf base layers for rapid drainage of waterlogging into deeper soil layers. In contrast to other wetting agents, there is no water retention.

Also suitable as an aid to leaching high salt contents from the root zone. As a special application programme in autumn/winter, MAGNUM FORTY-FOUR contributes to the prevention of puddle formation and effective water drainage after heavy rainfall events.

Advantages for use on golf courses and sports fields

- reduces waterlogging and puddle formation
- promotes the rapid drying of the soil surface
- also suitable for use on fairways, bunkers, surrounding areas or sports fields
- Effective tool for leaching high salt contents from the root zone.



Application	Quantity	Litre water
Vegetation period every 4 weeks, litres in winter every 8 weeks	20-40 litres/ha	300-600
Packaging	10 litre canister (original container 2 x 10 litres)	

Magnum Recoil

To reduce dew - for drier grasses

Especially the typical lawn diseases such as snow mould, dollar spot, anthracnose etc. require longer lasting moist leaf surfaces for a successful infection of the grasses.

The special ingredients of MAGNUM RECOIL, such as oils and wetting agents, form a protective layer on the upper side of the leaf, which reduces the formation of dew and gutation droplets or dissolves them more quickly.

MAGNUM RECOIL ensures faster drying of the grasses after dew, rainfall and irrigation and thus reduces the risk of fungal diseases.

The duration of action of MAGNUM RECOIL is up to 14 days under best conditions, depending on growth and cutting frequency. In cooler temperatures and when grass growth has stopped, up to 21 days are possible.

Advantages of MAGNUM RECOIL

- ▶ Faster drying of the grasses after dew, precipitation or sprinkling
- ▶ The shortened surface humidity reduces the risk of fungal infections
- ▶ Reduces the moisture duration on the leaves
- ▶ Reduces dew and guttation drop formation
- ▶ Better playing conditions for the golfers and footballers

Instructions for use

Duration of effect approx. 14-21 days Factors such as moisture intensity, temperature, The amount of grass, the frequency of mowing and the type of lawn influence the duration of the effect.

Foliar fertilisation and any treatments/spray applications must be carried out two days before! MAGNUM RECOIL must be sprayed on dry grass and it should not rain for at least 6 hours afterwards (24 hours would be better!).

Application	Quantity	Litre water
All year round every 14 days	10 litres/ha	100-400 litres 100-200 litres are
Packaging	10 litre canister (original container 2 x 10 litres)	



04

Liquid Green

Green lawn paint for concealing

With the help of LIQUID GREEN, damaged, unsightly or dormant lawns quickly regain their natural green colour in an environmentally friendly and long-lasting way. Also excellently suitable for colouring Divot sand.

Examples for the application

- For use in case of frost damage (e.g. in football stadiums).
- After oil damage (e.g. on greens)
- After manure burns
- For heat damage
- In the case of temperature stress to protect against excessive evaporation
- Poor winter colouring of the grasses
- Mechanical damage
- Unsightly turf (e.g. after heat damage or diseases)
- For concealing diseases on golf greens before important tournaments
- For staining sand as Divot-Mix

For television broadcasts, e.g. of first division football matches or golf and equestrian tournaments, LIQUID GREEN is a valuable helper for the perfect appearance of the lawns.

During the winter months, the colour remains for up to 14 weeks. The durability of the colour during the season depends on the respective growth and the frequency of grass cutting.

Application on lawns

as a colouring agent for Divot sand

0.5 litre to 1.0 litre Liquid Green in 25 litres of water for 500 m² (depending on the colour intensity)

50 to 100 ml Liquid Green for 50 kg Divot sand (in 500 ml water) desired

Football stadium: approx. 13-16 litres of Liquid Green in 400 litres of water for 8000

Spray Liquid Green onto dry grass surfaces. Once dried, Liquid Green will not wash off. During spray application, avoid drifting onto non-target areas. Please note the lower application rate compared to other products!

Packaging

1 litre bottle (original container 6 x 1 litre)



Temporary colouring spray indicator

OPTIK PLUS BLUE is a liquid blue spray indicator that is added to liquid fertilisers, herbicides, fungicides and wetting agents to accurately apply spray applications without overlaps or voids on the areas to be treated. In addition, drift or material defects such as clogged spray nozzles or hose leaks are immediately detected by the user.

In addition, the spray indicator has a buffering effect and thus reduces the pH value of the spray liquid with regard to an optimal effect of pesticides.

Special additives support uniform surface wetting and thus guarantee homogeneous colouring.

An anti-drift component reduces the number of small droplets, which ensures efficient and safe application of the spray liquid.

How does OPTIK PLUS BLUE work?

OPTIK PLUS BLUE initially gives a distinct colour to the spray solution in the tank, but appears as a discrete blue-green shade on the grasses after application.

The colouring is only temporary. Within 24-48 hours the colour fades under the influence of natural sunlight, rain or dew.

OPTIK PLUS BLUE offers you the following advantages

- ▶ wasteful overlaps are avoided
- ▶ Forgotten areas become visible immediately
- ▶ Clogged spray nozzles and hose leaks are detected immediately
- ▶ Protection of the environment and the wallet through precisely dosed quantities of active ingredients



Application rate	
250 ml OPTIK PLUS BLUE for 100 litres of spray liquid	1 litre OPTIK PLUS BLUE for 400 litres Spray liquid
With increasing experience with OPTIK PLUS BLUE, the user can adjust the application rate to individual needs depending on local conditions (colour preference, light incidence, grass colour, grass length).	
Packaging	1 litre bottle (original container 6 x 1 litre)



Optics Blue WSP

Blue spray indicator in water-soluble bag

Practical, powdered and temporarily colouring spray indicator, packed in a water-soluble bag (double layer). Simply place the bag in the spray tank.

The temporary colouring disappears after approx. 24-48 hours under the influence of sunlight, rain, dew and additional irrigation.

The advantages of OPTIK BLUE WSP

- ▶ Wasteful overlaps are avoided
- ▶ Forgotten areas become visible immediately
- ▶ Clogged spray nozzles and hose leaks are detected immediately
- ▶ Protection of the environment and the wallet through precisely dosed quantities of active ingredients



Application

Greens and tees	1 sachet in 200 litres of spray liquid
Fairways and sports fields	1 - 2 bags in 200 litres of spray liquid, or the desired colouring is achieved

Packaging	1 water soluble bag (original packaging 40 x 1 bag in bucket)
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EKOprop Turf - Seed Treatment

BIO mobiliser for vital seedlings

The basis of EKOprop Turf is the natural bacterial strain *Pseudomonas* spp. as well as *Bacillus* spp. and mycorrhiza fungi. These different soil microorganisms colonise the root zone and the surface of the grass roots. By occupying the various habitats, the soil microorganisms ensure optimal water and nutrient uptake and also promote nutrient availability throughout the entire growing season. The result is more vital root growth, which sustainably promotes the development of the lawn grasses. With the improved formulation, EKOprop Turf now offers an effective duration of at least 12 months.

The advantages of EKOprop Turf (formerly Proradix Turf)

- ▶ Faster and improved germination
- ▶ Improved root growth
- ▶ Increased stress tolerance
- ▶ Promotes nutrient mobilisation and nutrient uptake
- ▶ Promotes water supply

Especially the positive effect on root growth through seed treatment with EKOpropTurf sustainably promotes the development of lawn grasses. The result is a strong, hard-wearing lawn thanks to natural mechanisms of action.

Especially new seedlings and reseedings for greens, tees, fairways and sports turf fields, as well as valuable and time-critical seedlings, should be treated with EKOprop Turf.

treated with EKOprop Turf



Application

100 g EKOprop Turf
per 100 kg seed.
We spray the seed for you
with EKOprop Turf.

Germination accelerator Headstart®

For faster development

HEADSTART® is a germination stimulant that is applied as an extremely thin film to the grass seed. It contains an algae extract with the natural plant hormone cytokinin, which stimulates cell division. Furthermore, HEADSTART® contains trace elements and organic compounds that attract moisture and supply the seedling with sufficient nutrients during the first growth phase.

The effect

- ▶ up to one week shorter germination time
- ▶ Increased competitive strength of the treated grasses
- ▶ Optimised germination
- ▶ Less risk with new sowing or reseeded
- ▶ Faster and denser lawn growth and fewer weeds
- ▶ Increased proportion of grasses *Poa pratensis* in the stand

We offer the HEADSTART® treatment with various meadow grass varieties, which can be found in the following mixtures:

- ▶ PS-49 for reseeded football fields
- ▶ PS-1811 "Hybrid pitch" sports turf
- ▶ PS-44 Regeneration of football fields or golf tees and driving ranges
- ▶ Special mixtures according to your specifications
- ▶ Special turf mixtures

Sowing after one week



Handled with Headstart



Untreated control

Fertiliser for turf and lawns

For the establishment and maintenance of turf and lawns and for the active promotion of microorganisms in the soil.

Organic-mineral NPK fertiliser with magnesium & sulphur

10+5+8(+3+5), 25% organic matter
 10% N Total nitrogen
 5% P_{2O5} Total phosphate
 8% K_2O Total potassium oxide
 3% MgO Total magnesium oxide
 5% SO_3 Sulphur

As a basic fertiliser before sowing or laying turf and as a maintenance fertiliser for young and old lawns. Can also be used for perennial beds, wooded areas, roses and hedges.

- ▶ creates a dense, dark green, resilient lawn in a short time
- ▶ Effect from the 5th day over many weeks
- ▶ a good spreading is possible due to a uniform grain structure
- ▶ Promotes rapid scar closure
- ▶ Promotes felt decomposition in the turf through its biological activity



Turf or new lawn installation	Maintenance fertilisation
50 - 100 g/m ² on the fine levelling layer. condition of the lawn - and then work in lightly Distribute evenly over the lawn and soak	Apply 50 - 100 g/m ² - depending on the and soak
	3 - 5 fertilising passes per year from March to October
	With immediate and long-term effect up to approx. 12 weeks
Packaging	12.5 kg bag, 25 kg bag





ProSementis

Lassen
Sachen
Kellern
Bierprodukte

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