Your sports pitches are used day in, day out.

It therefore comes as no surprise that by the time the winter break comes along, parts of the pitches will have been damaged and by the time the end of the playing season has arrived the pitches have almost completely lost their grass cover, severely limiting the number of available playing hours.



Why choose Sos ?

(SOS) is the quickest solution for renovating sports pitches

reduces the recovery time

gos quickly establishes all year round (except at frost)

S germinates at low soil temperatures

suppresses poa annua

provides a dense grass cover all year round

sos results in more playing hours

So3° has a high rooting capability

provides a more even and comfortable pitch, so fewer injuries

©©3° enables improved ball behaviour for specific soccer skills

is the better alternative for artificial turf

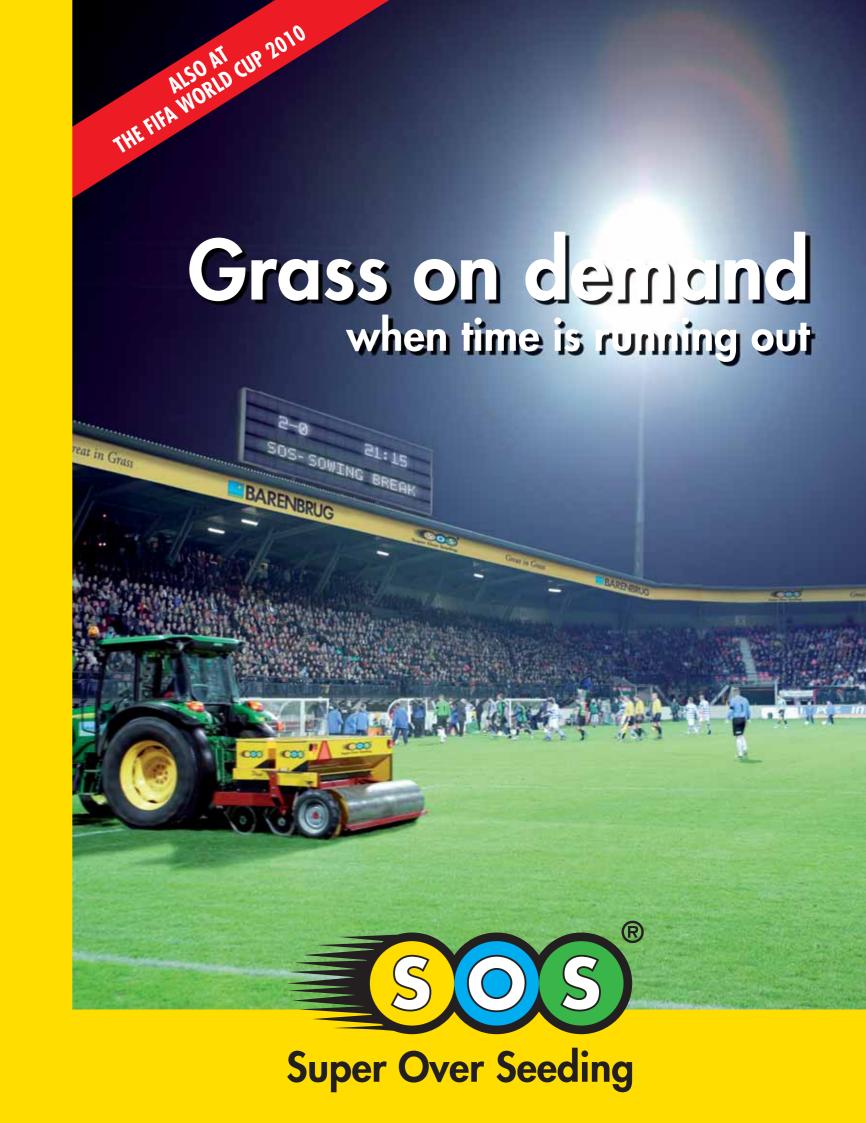
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Great in Grass

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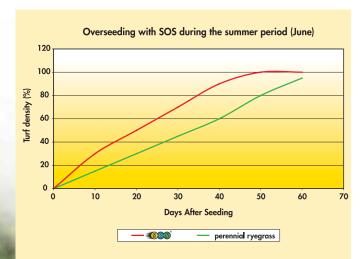


Super Over Seeding

Quick germination with SOS!

Once the playing season is over, all sports pitches are in need of major renovation. However, busy competition schedules leave only limited time for this. Achieving and maintaining a high grass cover has become a challenge ...

SOS is the solution for reducing the recovery time of the pitch after renovation. Overseeding using SOS guarantees grass cover of at least 60% within one month - 15 days faster than with standard blends containing perennial rye grass!

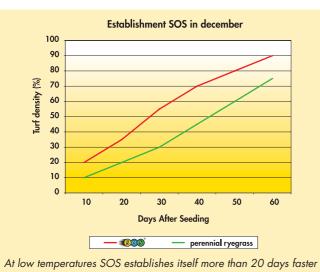


Overseeding using SOS reduces the time after sowing that is needed for the germination and establishment of grass cover by 15 days compared to perennial rye grass.

Overseeding at lower temperature with SOS

The most heavily used pitches normally lose most of I their grass plants in the middle of the winter. This means clubs need to improvise in order to keep on playing on suitable pitches. SOS puts an end to all of this, as overseeding is carried out on a continuous basis, already from the end of the winter period, thereby ensuring that your grass cover is maintained at a high

The following graph shows just how quickly SOS germinates and establishes itself when overseeded in January at a soil temperature of 6.2 °C. One month later, the grass cover is already above 60%.



than perennial rye grass.

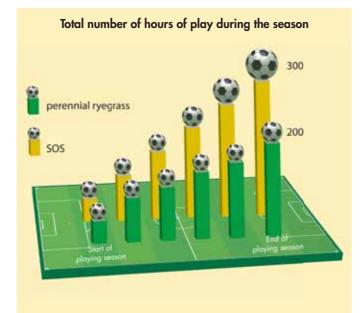
SOS even germinates when the soil temperature is low

Several temperature germination trials have demonstrated significant differences in percentage germination between different cultivars within the same species, including perennial ryegrass. SOS demonstrated its capability of germinating in very cool temperatures.

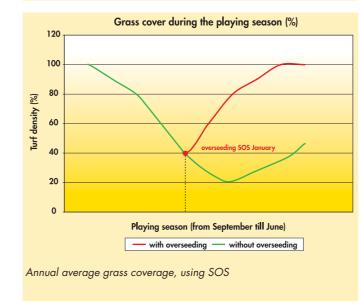
Where perennial rye grass did not germinate, SOS germinated very well in a refrigerated trial at a constant level of 4 degrees Celsius. This low temperature germination capability means that renovation windows can be greatly extended.

SOS means more matches can be played

Thanks to SOS, overseeding is possible throughout the entire football season. SOS gives a continuously dense grass cover which also increases playability during the year. Pitches can be used more intensively than before. With SOS, the number of playing hours is drastically increased, in some cases even by around 100 additional hours a year!



Using SOS increases the number of playing hours by about 100 hours a year compared to perennial rye grass







SOS suppresses 'poa annua' (annual meadow grass)

Overseeding with SOS also offers a new means of suppressing 'poa annua' on sports pitches.

Unlike SOS, poa annua has shallow roots and is therefore susceptible to damage after heavy

Intensive use easily results in bald spots. Poa annua is also lighter in colour, which means that the pitch will show signs of discolouration. The key feature of SOS is that it germinates and establishes at lower temperatures than poa annua, preventing it from even getting a chance to establish.

Overseeding tips using SOS

Sowing period & machinery

The product can be sown all year round. The major advantage of SOS is its quick solution for pitches subject to heavy duty and cold soil temperatures. Based on our research trials, we know that SOS already germinates at a minimum soil temperature of 6 degrees Celsius. SOS can be sown using any type of overseeding machine. Crossways overseeding is recommended as this ensures that the grass seed is distributed evenly.

Sowing depth

Various tests in different countries showed us that not-too-deep sowing is the best for good germination. The recommendation is 8 mm.

Sowing rate

The recommended sowing rate varies from 30 to 50 grammes, depending on the soil temperature and grass cover.

Durantitus a	famous soud money	d in		vono o din o vvith
•	f grass seed requi at various soil to	· ·	. *	· ·
	Soil temperature	Grass cover lower than 40%	Grass cover between 40 and 60%	Grass cover more than 60%
Vinter	6 °C	50 g	45 g	40 g
	10 °C	45 g	40 g	35 g
pring	15 °C	40 g	35 g	35 g
	20 °C	35 g	35 g	30 g
ummer	25 °C	35 g	35 g	30 g

After seeding, it is essential to keep the top layer moist so as to accelerate the germination process. If irrigation is required, this should be continued until at least one week after the first shoots emerge.

Once overseeding with SOS has taken place, you can apply initial fertilization according to the guideline (in kilogrammes per hectare). Please take your own situation into consideration before automatically following these guidelines.

	Nitrogen	Phosphate	Potassiun
Sandy surface layer (max. 2.5% organic matter)	40	50	30
Rich(er) surface layer (min. 2.5% organic matter)	25	35	20

The grass can be mown once the new grass has established. The usual mowing height for sports pitches should be used. In the case of SOS, the minimum mowing height is 20mm.

Amsterdam, March 2010

"If the temperature is below 10 degrees, we use SOS."

Jan and Kees Jong Groundsmen Amsterdam Arena

Rotterdam, March 2009

"SOS has saved us a lot of money!"

Remy de Mild Groundsman De Kuip Rotterdam

Production specifications for SOS

Morphological characteristics

Growth habit tufted annual and perennial

similar to broader leafed perennial Leaf width

down to below 25 cm

rye grass amenity cultivars

Leaf colour mid-green

Rooting capability Seeds per gramme

Disease tolerance Thatch build up very low

Environmental conditions

5.0 - 7.8Wear tolerance excellent Shade tolerance

very low (6 degrees C) extremely fast

Establishment

Average maintenance requirements average Minimum mowing height 2.0mm Mowing frequency

medium/high under frequent Water requirements

mowing regimes average (please refer to table Nitrogen requirement

for fertilization). SOS requires additional

input late autumn & early spring when actively growing

30-50g/m² Oversowing rate no deeper than 15mm (broadcasting is possible

with good irrigation)





