

# Shoreline

## Coastal courses

### Usage

**Overseeding and/or construction** of free-draining fine and medium-fine turf areas exposed to saline conditions.

### Key points

- Germination and survival in salt
- *Viktorka* and *Barpearl* highly ranked in Turfgrass Seed Booklet

### Species Formulation

100% slender creeping red fescue



**SHORELINE is an innovative blend of slender creeping red fescue cultivars; the name Shoreline is derived from the Latin *litoralis*, the species name for slender creepers. The mix contains two top-10 ranked varieties: *Viktorka* and *Barpearl*.**

The mix provides superior salt tolerance for fescue dominant golf greens on links and seaside golf courses exposed to salt spray and salt-laden winds. It is suitable for the construction and overseeding of all areas of free-draining turf exposed to salt.

Salt tolerance is a complex issue. Most salt stress issues experienced on golf courses throughout the UK and Ireland are caused by salt spray and/or salt laden winds. Problems associated with high salinity soils are much more complex, and more difficult to manage due to the ability of varying soil particles to attract salt under differing environmental conditions.

The grass plant's response to salt stress can vary significantly during its life cycle. The plant's capabilities at different stages, from germination to established sward must therefore be tested to realise any practical solutions for a dedicated grass seed mix.

**Germination salt tolerance** is tested in a laboratory using ISTA parameters at different salt levels equivalent to sea water of 20,000 and 30,000 parts per million (ppm), with 0ppm as a control. Laboratory trials at Barenbrug research demonstrate the superior germination capability of cultivars of slender creeping red fescues (*Festuca rubra litoralis*) in comparison with cultivars of Chewings fescues (*Festuca rubra commutata*). The data represents percentage germination after 30 days at 0ppm (control), 20,000ppm and 30,000ppm (Graph 1).

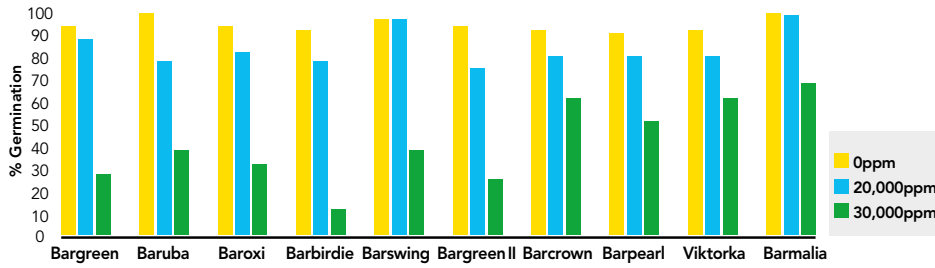
### IN THE BAG

- 50% **VIKTORKA**  
Slender creeping red fescue
- 50% **BARPEARL**  
Slender creeping red fescue

- Sowing rate:** 35-45g per m<sup>2</sup>
- Overseeding rate:** 20-30g per m<sup>2</sup>
- Sowing depth:** 8-12mm  
below thatch
- Mowing height:** Down to 4mm
- Pack size:** 20kg

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**Graph 1**

Laboratory Test: Germination of cultivars of slender creeping red fescue and Chewings fescue.

**Chewings fescues:** *Bargreen, Baruba, Baroxi, Barbirdie, Barswing, Bargreen II.*

**Slender creeping red fescues:** *Barcrown, Barpearl, Viktorka, Barmalia.*

Tests on established grass plants are carried out in two distinct environments, in a glasshouse grown in rootzone and secondly in field trial sites in native soils and imported rootzones in locations naturally exposed to salt stress. Slender creeping red fescue again generally demonstrates superior salt tolerance in comparison with Chewings fescues. (see pictures below).



**Pictures 1 & 2**

Glasshouse salt tolerance trial on three month old established plants at Barenbrug Research. Chewings fescue (left) versus slender creeping red fescue (right) at 30,000ppm salt water irrigation over a period of three months.