

# ENGINEER GRASSES FOR GREEN CIVIL WORKS



Roots of PRATI ARMATI® grass  
from greenhouse cultivation (\*)

(\*) PRATI ARMATI® is an anti-erosion technology based on seeds of natural plants. Like all living bodies a seed needs some time to germinate and then develop a plant.

The timing for seed germination, taking roots and development, and the number of grass species that will develop among the mixture of seeds used are strongly dependent on the soil characteristics (grain size, structure, surface roughness, cohesion, density, hardness, compactness, saturation, permeability, aeration) and on the climatic conditions of the site (exposure, slope, latitude, altitude, rainfall, humidity, temperature).

Moreover, the timing of seed germination, taking roots and development of plants depend on the processing and status of the ground, sowing time, possible rescue irrigation etc.

It usually takes 12 to 24 months for the grass blanket to reach at least 80% of the treatable surface (excluding rock outcrops, walls, paved surfaces etc ...) and thus to contrast erosion, unless the site is affected by special conditions and drought areas.

Also depth and root density are strongly depending on the above mentioned conditions. The specifications indicating a rooting depth of 200 cm in 24 months only refer to plant samples grown in greenhouse (at sea level) in test tubes filled with loose soil and equipped with drip irrigation.