ALL GREENING METHOD

Full-automatic delivery and spray system to hide slope structures with vegetation base materials

Raito

"ALL GREENING" system consists of a full-automatic mixing plant and a new nozzle system, which enables to hide concrete slope structures such as grid beams and anchor bearing plates. This system makes use of construction by-products as vegetation base materials, creating harmony with the surrounding environment.

Advantage

● Environment-friendly greening method using soil spraying

This system can utilize various by-products produced at construction sites including waste soil, grubbed roots, or crushed trees .

● Vegetation bese spraying with optimized mix propotion best suitable for site conditions

The full-automatic mixing plant is capable of modifying the mix propotion flexibly according to the amount and nature of construction wastes.

● Continuous delivery and spray of large amount materials

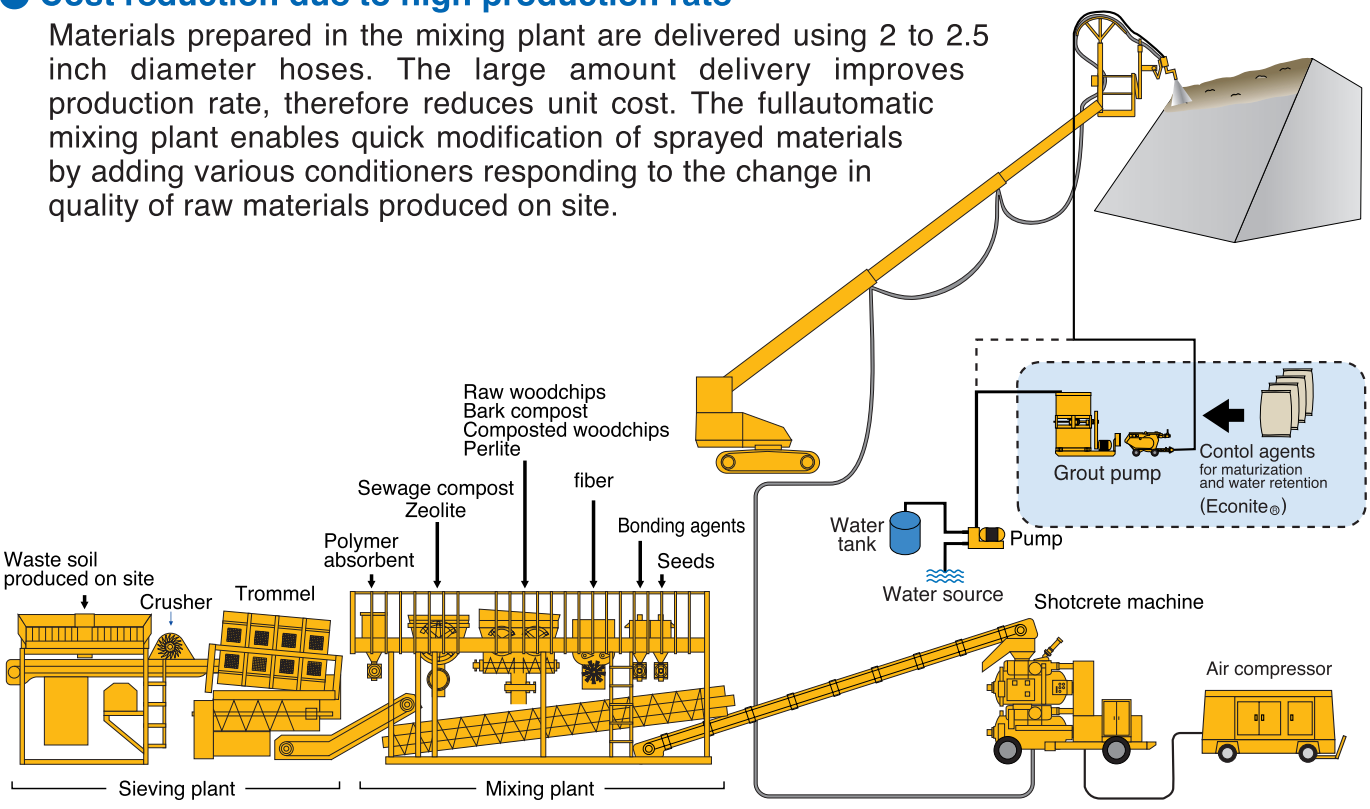
Better mixing efficiency and large-diameter spray nozzle realize massive delivery and spraying, resulting in higher production rate.

● 20 to 50 cm thick vegetation base layer reinforced by short synthetic fiber

Thick vegetation base, which is suitable for tree growth and complete cover over unpleasant concrete structures, can be installed onto slopes with a gradient of 1:0.5 (about 60 degrees) in one operation. Short synthetic fiber mixed in sprayed materials greatly improves erosion resistance.

● Cost reduction due to high production rate

Materials prepared in the mixing plant are delivered using 2 to 2.5 inch diameter hoses. The large amount delivery improves production rate, therefore reduces unit cost. The fullautomatic mixing plant enables quick modification of sprayed materials by adding various conditioners responding to the change in quality of raw materials produced on site.



ENVIRONMENT-FRIENTDLY "ALL GREENING"

Application

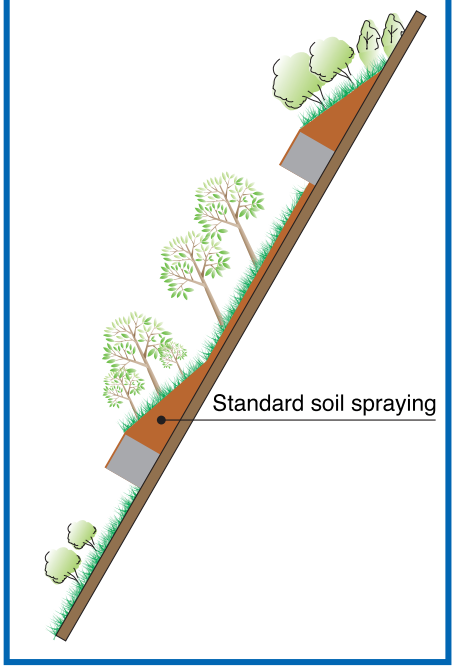
Efficient reuse of construction by-products

- For slope greening where waste soil and cut trees should be efficiently reused on site

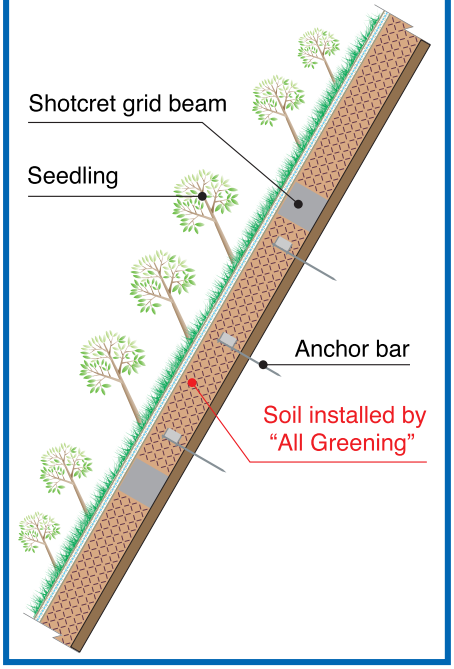
Aforestation and complete cover of slope structures such as shotcrete grid beams and anchor bearing blocks

- For slope greening to improve harmony with surrounding emvironment
- For installation of thick vegetation base to promote tree growth on slope
- For slope greening where erosion-resistant top soil is required

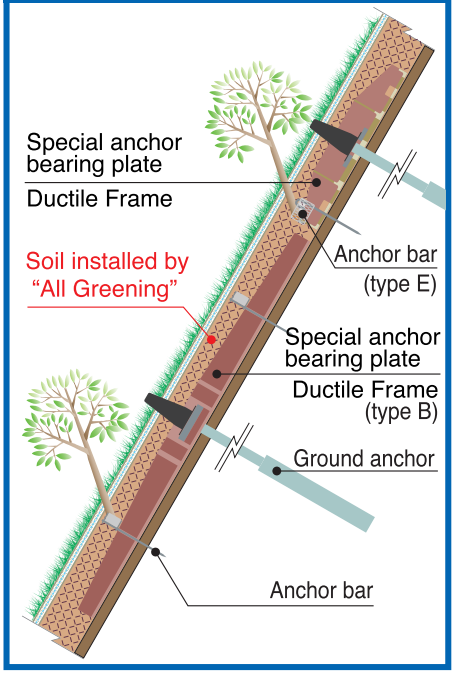
Conventional greening method



To completely hide shotcreted grid beams



To completely hide anchor bearing plates



* "All Greening" soil spraying method : the residual soil produced from site formation works is modified with polymer absorbent, bonding agents, fertilizer and other additives and sprayed back to the site slopes where the soil is originated.

RAITO KOGYO CO., LTD.
4-2-35, Kudan-Kita, Chiyoda-Ku,Tokyo 102-8236 JAPAN
TEL.+813-3265-2506 FAX.+813-3230-1709
E-mail overseas@raito.co.jp URL http://www.raito.co.jp

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