Title (en)

THERMO-STRUCTURAL BASE ON UNSTABLE SOILS

Title (de)

TEMPERATURBESTÄNDIGE FUNDIERUNG AUF UNSICHEREN BÖDEN

Title (fr)

BASE THERMO-STRUCTURELLE REPOSANT SUR DES SOLS INSTABLES

Publication

EP 1530661 A1 20050518 (EN)

Application

EP 03737801 A 20030625

Priority

- CA 0300959 W 20030625
- CA 2390653 A 20020702
- US 26371502 A 20021004

Abstract (en)

[origin: WO2004005621A1] In this invention, after the grade at a construction site has been excavated and/or graded to its preliminary rough grade, re-enforcing material, typically synthetic in nature, such as nylon or polypropylene mesh or rods, fibre-glass rods or mesh, or other specified re-enforcing material is laid across soil at the construction site and a reinforced base is formed by covering the reinforcing material with a polymeric resin, whereby upon curing, the polymeric resin and reinforcing material forms a contiguous thermo-structural base. Re-enforcement material comprising synthetic and/or non-synthetic components in the form of rods, rope, strapping, mesh, netting, geotextile fabrics or other dimensional forms laid longitudinally, or in a grid pattern, in single or multiple layers, tied or not tied all in situ sprayed with a high density closed cell, water resistant expanding two component polyurethane foam system. The reinforcing material may be nylon, polypropylene, fiberglass, other synthetic or non-synthetic materials or combinations of these materials.

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E01C 3/06; E02D 27/35; F16L 1/026

IPC 8 full level

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CPC (source: EP)

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See references of WO 2004005621A1

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