

ABSTRACT

METHOD FOR STRENGTHENING A CONCRETE DECK

In order to strengthen a concrete deck (1) of a bridge or the like, the pavement layer (2) is removed and adhesive (5) is applied to the concrete deck. Then a plurality of panels (6) made of material having a strength similar to or stronger than that of the concrete deck are laid on the adhesive (5) to form a first strengthening layer (7). Sheet-like reinforcement (8) is then positioned above parts of the concrete deck (1) which are in upper-surface tension, e.g. above beams (4). Further adhesive (9) is then applied and covered with a plurality of panels (10) which are similar to the panels (6). Finally, the pavement layer (2) is reinstated. Preferably, the pattern of the panels (10) is offset from the pattern of the panels (6).

(Figure 1)