

(54) Title of the invention : PREPARATION OF BACTERIAL CONCRETE CONTAINING BACILLUS SUBTILIS MICROSCOPIC ORGANISMS

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(57) Abstract :

The present invention relates to development of bacterial concrete preparation of bacterial concrete containing Bacillus subtilis microscopic organisms. The bacterial concrete composition includes cement, fine aggregates, coarse aggregates, water, Bacillus subtilis microscopic organisms and calcium lactate. Bacillus subtilis bacteria with calcite lactate is used in different percentages such as 5%, 10% and 15% of cement weight for M20 and M40 grade concrete with river sand mixes and crushed stone sand mixes. The local available river sand and crushed stone sand are used as fine aggregates. The crushed granite broken stone of 20 mm nominal size is used as coarse aggregate.

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