

Abstracts

Microwave Road Patch System

L.L. Boyko and E.H. Lederer. "Microwave Road Patch System." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 360-362.

Early in 1969 the Syracuse Research Corporation (SRC) began a study of the possible application of microwave energy to thermocatalytically polymerize polyester-aggregate compositions for rapid repair of bridge decks and highway pavements. The success of this initial study prompted a consortium of five states to fund SRC to develop a prototype system. The 20kW microwave power generator designed and constructed under this study effort proved the feasibility of polymerizing polyester-aggregate compositions in actual bridge deck repair demonstrations in each of the five sponsoring states. In another concurrent study for the US Air Force, SRC established the applicability of this system for the repair of airport runways.

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