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(54) **FOAMABLE COMPOSITION EXHIBITING INSTANT THIXOTROPIC GELLING**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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(57) **ABSTRACT**

The invention relates to a foamable composition comprising at least two parts. The first part comprises a polyol, a thixotropic gelling agent, a blowing agent, a urethane reaction catalyst and a isocyanurate reaction catalyst. The second part comprises at least one isocyanate. A foam mass can be prepared by combining the first part polyol component with the second part isocyanate component. The composition is foamable under water and exhibits, upon foaming under water, substantially the same wet foam density and dry foam density. The invention also relates to a method of repairing or reinforcing structural members having defects such as spike holes left after spike removal from railroad ties during road bed maintenance or repair by means of the foamable composition.

47 Claims, 2 Drawing Sheets

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Related U.S. Application Data

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(51) **Int. Cl.**⁷ **C08G 18/32**

(52) **U.S. Cl.** **521/163; 521/902; 521/172; 521/173; 238/29; 156/77; 523/130; 523/131**

(58) **Field of Search** **521/163, 173, 521/902, 172; 238/29; 156/77; 523/130, 131**

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