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Hazardous material removal using strippable coatings

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Abstract

A novel method and process for applying a tailor-made polymer film system to a metal surface for the purpose of immobilizing and decontaminating hazardous chemicals from the said surface using a polymer that will take up the undesirable materials by solution, absorption adsorbtion and hold such undesirable materials in solid suspension with subsequent stripping of the polymeric material.

Therefore the inventive steps in the novel method of this invention comprise: (1) the selection of a tailor-made polymer, preferably one that is capable of being cross linked (2) applying by conventional spraying, brushing or other coating mechanisms the polymer in solution or suspension to a surface or a metal surface that has been painted (3) causing the coating to come in contact with a toxic chemical material be for stripping the coating from the surface by physical means or by the use of a material that causes decrosslinkage and or removal of the polymer at which time the undesirable chemical material is deposited in a safe area.

References: US 02495729 19500100 Hutson et
al.
03063873 19621100 Saroyan
03079284 19630200 Boucher
et al.

http://www.dt.navy.mil/patents/indian_head/51/5120369.html

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