

Title (en)
FIRE PROTECTIVE MASTIC AND FIRE STOP.

Title (de)
MASTIX ZUM SCHUTZ GEGEN FEUER UND DESSEN AUSBREITUNG.

Title (fr)
MASTIC DE PROTECTION CONTRE LE FEU ET DISPOSITIF D'ARRET D'INCENDIE.

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Application
EP 79901244 A 19801008

Priority
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• US 7900160 W 19790323

Abstract (en)
[origin: WO8002086A1] A halogen-free fire protective mastic, whose essential components are a low fusing ceramic frit, hydrated solids having chemically bonded water which is released as a fire protective water vapor when heated, intumescent compounds which expand during the same heat application to form a porous, expanded or foamy insulating body, fire retardant compounds which have a fire break effect, such as antimony oxide and zinc tetraborate, and binder materials which are thermoplastic resins and serve to bind the components into a flexible coating when applied, the binder materials being dispersed as an emulsion in water and mixed with the other components to form a mastic. With further addition of water the mastic may be converted to a selected viscosity for application by troweling, coating or spraying. The mastic is applied as a coating (15) or a precast boot upon a single or grouped electric power and control cables to restrict fire propagation and to prevent self ignition of cables from fires due to overloading or other electrical faults, or from oil, waste or trash fire sources. The mastic is further usefully shaped into fire protective panels (30) the latter of which, when dried, can be mounted as a protective wall insulating a section of cables passing from area to area (A, B) as a fire stop. The total panel can be formed of the dried mastic, or the mastic can be coated upon one or both sides of insulating panels such as ceramic fiber boards, to further reduce the temperature gradient through the panel upon fire exposure and thus appreciably reduce the temperature on the cold side by 50-70° F, thereby minimizing the danger of self ignition of gases or combustible materials such as cable jacketing, insulation or other flammable materials.

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