

Title (en)
FILM-FORMING MATERIAL CONTAINING PHOSPHOROUS AND METHODS OF PRODUCING COATING COMPOSITIONS CONTAINING PHOSPHOROUS

Title (de)
FOLIENBILDENDES MATERIAL MIT PHOSPHOR UND VERFAHREN ZUR HERSTELLUNG VON PHOSPHORHALTIGEN BESCHICHTUNGSZUSAMMENSETZUNGEN

Title (fr)
MATÉRIAU FILMOGÈNE CONTENANT DU PHOSPHORE ET PROCÉDÉS DE PRODUCTION DE COMPOSITIONS DE REVÊTEMENT CONTENANT DU PHOSPHORE

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Abstract (en)
[origin: WO2008127744A2] Film-forming materials include resins having a covalently bonded phosphorous atom, the phosphorous atom having at least one covalently bonded oxygen atom. Film-forming resins containing phosphorous can include epoxy, acrylic, polyurethane, polycarbonate, polysiloxane, polyvinyl, polyether, aminoplast, and polyester resins. A process to produce a film-forming resin includes reacting various polymers to incorporate a pendent group comprising a covalently bonded phosphorous atom. Methods of making a coating composition including a film-forming material having a covalently bonded phosphorous atom, the phosphorous atom having at least one covalently bonded oxygen atom. Coating compositions can be used to coat a substrate, such as a metal substrate, by electrodeposition. Applied coatings containing the film-forming resins can be cured to form crosslinked films on substrates.

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