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POLYMERIC COATING COMPOSITION AND COATED SUBSTRATES

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Coating compositions, coated substrates, and coating process are disclosed which provide improved stability with respect to degradative effects of ultraviolet light. The coating composition comprises a film-forming material which includes as the principal film-forming material, a polymer derived from at least two copolymerizable monomers, one of which is methyl methacrylate and the other a monomeric ultraviolet light inhibitor, namely 4-benzoyl-3-hydroxyphenoxyethyl acrylate or 4-benzoyl-3-hydroxyphenoxyethyl methacrylate, and a volatile solvent therefor. Combinations of these monomeric inhibitors may also be used. Monomeric methyl methacrylate may be used in amounts between about 38.0% and 80.0% by weight with about 0.1% to 5.0% by weight of the monomeric ultraviolet light inhibitor and about 19.0% to 60.0% by weight of other monomeric materials. The coating compositions are applied to substrates and initially baked at about 150–225° F. for a time sufficient to volatilize the solvent. The coating is then smoothed to remove surface imperfections, and finally baked at about 275°–325° F. to soften and reflow the coating into a smooth finish.