

Title (en)
ANTI-FOULING VARNISH, METHOD FOR APPLICATION OF SAID VARNISH TO A SILICONE SUPPORT AND SUPPORT TREATED THUS

Title (de)
ANTIFOULINGLACK, VERFAHREN ZUM AUFBRINGEN DES LACKS AUF EINENSILIKONTRÄGER UND SO BEHANDELTEN TRÄGER

Title (fr)
VERNIS ANTI-SALISSURES, PROCÉDÉ D'APPLICATION DE CE VERNIS SUR UN SUPPORT SILICONE ET SUPPORT AINSI TRAITÉ.

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Application
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Abstract (en)
[origin: FR2849446A1] A cationically polymerizable and crosslinkable silylated lacquer (I) comprises (by weight) at least 80% base compound containing polymerizable/crosslinkable groups, at least one of which is alkenyl ether, epoxy or oxetane; 0.1-10% cationic initiator having onium salt cation and borate anion; 0-10% polyorganosiloxane containing alkenyl group(s) and/or epoxy group(s); 0-10% silyl compound containing epoxy group(s); and 0-10% silyl compound containing alkenyl group(s) and/or epoxy, alkenyl ether or oxetane group(s). A cationically polymerizable and crosslinkable silylated lacquer (I), specifically having antisoiling properties, comprises (by weight): (a) at least 80% base compound(s) containing at least two polymerizable/crosslinkable groups, at least one of which is alkenyl ether, epoxy or oxetane; (b) 0.1-10% cationic initiator(s) having an onium salt cation of formula $((R_1)_nA-(R_2)_m)^+$ and a borate anion of formula $(BXaRb)^-$; (c) 0-10% polyorganosiloxane(s) (POS) containing at least one alkenyl group (preferably (meth)acrylic or its salt) and/or at least one epoxy group; (d) 0-10% silyl compound(s) containing at least one epoxy group; (e) 0-10% silyl compound(s) containing at least one alkenyl group (preferably (meth)acrylic or its salt) and/or at least one epoxy, alkenyl ether or oxetane group (provided that the POS and epoxy-silyl compound must be present if this compound is absent; and this compound must be present if the POS and epoxy-silyl compound are absent); (f) 0-10% ultrafine filler(s); (g) 0-10% thickener(s); and (h) 0-10% functional additive(s). A = element of groups 15-17 (e.g. I, S, Se, P or N), having valency v; R_1 = 6-20C carbocyclic or heterocyclic aryl (optionally containing N or S as heteroatom), optionally substituted by 1-25C alkoxy, -1-25C alkyl, NO₂, Cl, Br, CN, COOH, ester group or SH; R_2 = as R_1 , 1-20C alkyl or 2-20C alkenyl (all optionally substituted as for R_1); n = 1 to (v+1); m = 0 to (v-1); a = 0-3; b = 1-4, provided that (a+b) = 4; X = halo (F or Cl) or OH, provided that a = 0-2 if X = OH; and R = (i) phenyl substituted by at least one electron-attracting group (e.g. OCF₃, CF₃, NO₂ or CN) and/or at least two halo (preferably F), in which case the cation is an onium compound of a group 15-17 element, (ii) phenyl substituted by at least one electron-attracting group, especially halo (preferably F), OCF₃, CF₃, NO₂ or CN, in which case the cation is an organometallic complex of a group 4-10 element or (iii) aryl containing at least two aromatic rings (e.g. biphenyl or naphthyl), optionally substituted by at least one electron-attracting group, especially halo (preferably F), OCF₃, CF₃, NO₂ or CN. Independent claims are also included for: (1) a method for lacquering architectural textiles or other substrates, involving applying (I) to the silicone surface of a substrate formed at least partially from silicone (preferably silicone elastomer); (2) composites (other than architectural textiles), obtained by the above method and comprising either (a) a (preferably flexible) support (specifically a textile, non-woven or polymer film), optionally a coating (comprising at least one layer of silicone elastomer and at least one other (co)polymer) on at least one face of the support and at least one layer of the lacquer (I) or (b) a solid supporting mass (optionally of silicone and/or at least partially coated with silicone, specifically silicone elastomer) at least one layer of the lacquer (I); (3) composite architectural textiles, obtained by the above method and comprising a (preferably flexible) support (specifically a textile, non-woven or polymer film), optionally a coating (comprising at least one layer of silicone elastomer and at least one other (co)polymer) on at least one face of the support and at least one layer of the lacquer (I); and (4) manufactured articles comprising the composite architectural textiles or other composites.

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