

Title (en)
RELEASE REGULATING SILICONE SYSTEM AND USE THEREOF FOR PREPARING CURABLE RELEASE COMPOSITIONS

Title (de)
HAFTUNGREGULIERENDES SILICONSYSTEM UND SEINE ANWENDUNG IN HÄRTBARE NICHT-HAFTENDE ZUSAMMENSETZUNGEN

Title (fr)
SYSTEME SILICONE MODULATEUR D'ADHERENCE ET SON UTILISATION POUR LA PREPARATION DE COMPOSITIONS ANTI-ADHERENTES DURCISSABLES

Publication
EP 1406972 A1 20040414 (FR)

Application
EP 02751240 A 20020604

Priority

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- FR 0107477 A 20010607

Abstract (en)
[origin: FR2825713A1] An adhesion modulation system based on two polyorganosiloxane resins one reactive and one non-reactive, both solid in the dry state and one or more solvents or diluents of the mixture of resins. An adhesion modulation system based on two polyorganosiloxane resins one reactive and one non-reactive, both solid in the dry state and one or more solvents or diluents of the mixture of resins. The first resin (A) consists of at least two different types of siloxy units R₃SiO_{1/2} (unit M) and SiO₂ (unit Q) and/or RSiO_{3/2} (unit T) and optionally units R₂SiO (unit D), R, R₂, R₃ = organic radical, with a ratio M/Q and/or T of 0.6 to 1 and the number of optional units D 0.5-10 per 100 moles of resin. The second resin (B) has units R₃SiO_{1/2} (unit M) and SiO₂ (unit Q) and/or R₃SiO_{3/2} (unit T) and optionally units R₂SiO (unit D). Resin A is reactive and is present at 99-75, preferably at 96-85 parts by weight. Resin B is non-reactive and present at 1-25, preferably at 4-15 parts by weight. An Independent claim is included for hardenable anti-adhesion compositions containing at least one linear polyorganosiloxane blocked by triorganosiloxane terminal groups (D) of viscosity 100-1000 mPas, the organic radicals being 1-18C alkyl or cycloalkyl, 2-20C and preferably 2-12C alkenyl, alkenyl(3-9C)oxyalkylene(2-4C) and at least 80% by moles being methyl and at least 0.1% by moles being alkenyl or alkenyloxyalkylene bonded directly to silicon, at least one claimed modulation system, at least one hydrosilation inhibitor, at least one linear polyorganohydrogenosiloxane crosslinker (E) of viscosity 5-150 mPa.s, containing 1.5-0.5% by moles of hydrogen atoms bonded directly to silicon at the end or and/or within the chain and having 1-18C alkyl radicals or which at least 80% by moles are methyl. The amount of crosslinker is such that the ratio of the number of moles of SiH originating from B, C and E/the number of moles originating from A, C and D is above 1 and preferably 1.1-2.5

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