

Title (en)
HYDROGEL COMPOSITIONS

Title (de)
HYDROGELZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS D'HYDROGELS

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Application
EP 19795284 A 20190930

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Abstract (en)
[origin: WO2020070422A1] The invention concerns a crosslinkable composition comprising: A1) at least one multifunctional isocyanate-terminated urethane prepolymer comprising between 1 and 16 isocyanate functionalities on average, the average functionality being strictly greater than 1, the prepolymer being a product of the reaction of a diisocyanate, a triisocyanate or a polyisocyanate with a functionality strictly greater than 3, with a polyol comprising 1 to 8 hydroxyl groups; and/or A2) at least one mono, di or polyisocyanate and/or an oligoglycerol; with B) at least one macropolyol chosen from: B1) oligoglycerols with an average degree of polymerisation less than or equal to 7, B2) glycerol dendrimers, B3) linear, branched or hyperbranched polyglycerols with a degree of polymerisation greater than or equal to 8, B4) mixtures of hyperbranched polyglycerols and linear, branched or hyperbranched oligoglycerols, with a degree of polymerisation of between 2 and 7, optionally functionalised; and optionally: C) at least one polyol comprising at least two hydroxyl groups; D) at least one mono, di ou polyisocyanate; E) optionally at least one monofunctional alcohol, a mixture of monofunctional alcohols or a monohydroxylated polyether made from ethylene glycol and/or ethylene glycol/propylene glycol, or a mixture of monohydroxylated polyether and monofunctional alcohols; F) at least one catalyst or a combination of catalysts; G) at least one additive chosen from antioxidants, oxygen permeability enhancers, water retention agents, lubricants, compatibilising agents, viscosity modifiers, colouring agents, opacifying agents, antimicrobial agents, therapeutic agents and anti-biofilm bacterial agents; and/or H) at least one agent chosen from UV filters, UV absorbers and blue light filters.

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