

Title (en)
FILLED AND UNFILLED ORGANICALLY MODIFIED, OPTIONALLY ORGANICALLY CROSS-LINKED SILICIC ACID (HETERO)POLYSILICATES
AS DENTAL MATERIALS FOR CHAIRSIDE TREATMENT

Title (de)
GEFÜLLTE UND UNGEFÜLLTE, ORGANISCH MODIFIZIERTE, GEGEBENENFALLS ORGANISCH VERNETZTE
KIESELSÄURE (HETERO)POLYSILIKATE ALS DENTALMATERIALIEN FÜR DIE "CHAIRSIDE"-BEHANDLUNG

Title (fr)
(HÉTÉRO)POLYCONDENSATS D'ACIDE SILICIQUE CHARGÉS ET NON CHARGÉS ORGANO-MODIFIÉS, LE CAS ÉCHÉANT ORGANO-
RÉTICULÉS, EN TANT QUE MATÉRIAUX DENTAIRE POUR LE TRAITEMENT AU FAUTEUIL

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Abstract (en)
[origin: WO2013053745A1] The application relates to an organically modified silicic acid (hetero)polycondensate or a composite comprising an organically modified silicic acid (hetero)polycondensate and a filler, for use in a dentistry process comprising some or all of the following steps: (a) transforming the organically modified silicic acid (hetero)polycondensate or the composite into a block and hardening the block using an organic cross-linking technique; (b) intraorally measuring the area in the patient's mouth requiring treatment or, outside the patient's mouth, a mold of said area using a 3D imaging device; (c) transferring the generated image data to a computer unit; (d) creating a virtual construct, by means of the computer unit, for insertion into the patient's mouth; and then (e1) grinding the block of hardened organically modified silicic acid (hetero)polycondensate or composite to obtain a full-size restoration of said construct, or (e2) grinding the block of organically modified silicic acid (hetero)polycondensate to obtain a restoration that is smaller than the construct, coating the reduced-size restoration with a coating made of a pasty material, hardening the coating using an organic cross-linking technique, and grinding the coated restoration to obtain the full-size restoration; (g) polishing the restoration if necessary; and (h) inserting the restoration in the patient's mouth. In an alternative embodiment, step (a) is not mandatory and steps (e1) and (e2) are replaced by a variant of step (e2).

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