

Title (en)

TWO-PART SIZING COMPOSITION FOR REINFORCEMENT FIBERS

Title (de)

ZWEITEILIGE LEIMZUSAMMENSETZUNG ZUR VERSTÄRKUNG VON FASERN

Title (fr)

COMPOSITION D'ENCOLLAGE A DEUX CONSTITUANTS POUR FIBRES DE RENFORCEMENT

Publication

**EP 1966432 A2 20080910 (EN)**

Application

**EP 06845672 A 20061215**

Priority

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- US 32233105 A 20051230

Abstract (en)

[origin: US2007154697A1] A two-part sizing formulation that imparts improved strength of reinforced composites including a size composition and a binder composition is provided. The size composition may include one or more coupling agents and one or more film forming agents. The binder composition includes a high acid number copolymer formed from the polymerization of maleic anhydride or maleic acid and at least one other desired monomer and/or a high acid number polycarboxylic acid. In a preferred embodiment, the binder composition includes an ethylene-maleic acid copolymer formed by the hydrolysis of an ethylene-maleic anhydride copolymer. The size composition may be applied to a reinforcing fiber material before the binder size material is applied. The two-part size composition may be applied to a reinforcing fiber material to form a reinforcing fiber product which may then be densified or compacted to form a densified reinforcing fiber product, such as a pellet.

IPC 8 full level

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CPC (source: EP KR US)

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