

Title (en)

A COMPOSITE, ITS PREPARATION AND USE

Title (de)

VERBUNDWERKSTOFF UND HERSTELLUNG UND VERWENDUNG DAVON

Title (fr)

COMPOSITE, SA PREPARATION ET SON UTILISATION

Publication

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Application

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Abstract (en)

[origin: WO02068517A1] The invention relates to a process for producing a polymer composite comprising the steps of a) dissolving a water insoluble polymer and optionally a reinforcing filler thereof into a water soluble solvent, b) mixing water optionally containing a reinforcing filler onto the solution obtained in step a) thus forming an emulsion between the dissolved polymer and the reinforcing filler thereof and the solvent-water solution, c) allowing said solvent to evaporate simultaneously with the solidification of the polymer thus creating a porous reinforced polymer, d) covering said porous reinforced polymer with a polymerizable monomer system, and e) polymerizing said monomer system thus creating a polymer composite, provided that reinforcing fillers are present either in step a) or in step b). The invention further relates to the composite obtainable by the process and the use thereof.

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