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**Schultes et al.**

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(54) **REACTIVE MIXTURE FOR COATING MOLDED OBJECTS BY MEANS OF REACTION INJECTION MOLDING AND COATED MOLDED OBJECT**

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See application file for complete search history.

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(58) **Field of Classification Search**

CPC ..... B29C 45/1679; C09D 4/00

(57) **ABSTRACT**

A reactive mixture for coating mouldings by means of reaction injection moulding, containing at least 40% by weight of (meth)acrylates having at least two double bonds. The reactive mixture contains at least one photoinitiator and at least one thermal initiator. The present invention furthermore describes a coated moulding including a moulding which is obtainable by injection moulding processes and includes at least one polymer selected from polymethyl methacrylate, polymethylmethacrylimide, styrene-acrylonitrile copolymer, styrene-maleic acid copolymer and polymethyl methacrylate copolymers, and a coating which is obtainable by polymerization of (meth)acrylates having at least two double bonds. The coating has an adhesive strength rating of not more than 1 according to the cross hatch test and a decrease in gloss at 20° after a scratch resistance test according to ASTM 1044 (12/05) (applied weight 500 g, number of cycles=100) of not more than 10%.

**25 Claims, 1 Drawing Sheet**

