

Title (en)

Process for the preparation of a low molecular weight acrylate copolymer, and a liquid coating composition having a high solids content based on the acrylate copolymer thus obtained.

Title (de)

Verfahren zum Herstellen eines Akrylatcopolymeren mit niedrigem Molekulargewicht und eine flüssige Überzugskomposition mit hohem Feststoffgehalt auf Basis des auf diese Weise erhaltenen Akrylatcopolymeren.

Title (fr)

Procédé de préparation d'un copolymère de bas poids moléculaire à base d'acrylate et une composition liquide de revêtement ayant une concentration élevée en matières solides, à base du copolymère d'acrylate ainsi obtenu.

Publication

EP 0000601 A1 19790207 (EN)

Application

EP 78200096 A 19780713

Priority

NL 7708218 A 19770723

Abstract (en)

The invention relates to a process for the preparation of an acrylate copolymer having a number average molecular weight of 400-2000 by polymerization of a monomer mixture consisting of 35-60 mole % of styrene and/or alpha -methyl styrene, 20-60 mole % of acrylic acid and/or methacrylic acid and 0-30 mole % of one or more other monovinyl compounds in the presence of a 2 to 8 carbon atoms-containing mercaptomonocarboxylic acid or mercaptodicarboxylic acid as chain length regulator in an amount of 0.05 to 0.2 moles per mole of the monomeric compounds, after which the resulting reaction product is brought into reaction with a glycidyl ester of a monocarboxylic acid. The invention also relates to a liquid coating composition having a solids content of at least 60% by weight based on the acrylate copolymer thus prepared and a curing agent.

IPC 1-7

C08F 2/38; **C08F 8/14**; **C08F 212/06**; **C08F 220/06**; **C08F 220/28**; **C09D 3/14**

IPC 8 full level

C08F 8/00 (2006.01); **C08F 2/00** (2006.01); **C08F 2/38** (2006.01); **C08F 8/14** (2006.01); **C09D 125/02** (2006.01); **C09D 133/14** (2006.01); **C08L 61/20** (2006.01)

CPC (source: EP US)

C08F 8/14 (2013.01 - EP US); **C08F 212/12** (2013.01 - EP); **C09D 125/02** (2013.01 - EP US); **C09D 133/14** (2013.01 - EP US); **C08F 2810/30** (2013.01 - EP US); **C08L 61/20** (2013.01 - EP US)

C-Set (source: EP US)

1. **C09D 125/02** + **C08L 2666/14** + **C08L 2666/28**
2. **C09D 133/14** + **C08L 2666/14** + **C08L 2666/28**
3. **C08F 212/12** + **C08F 220/283**

Citation (search report)

- FR 2080396 A5 19711112 - REICHHOLD ALBERT CHEMIE AG, et al
- GB 1009217 A 19651110 - DU PONT
- DE 2233524 A1 19730125 - CELANESE COATINGS CO

Cited by

EP0064338A1; US4818796A; US4988766A; US6136443A; US5190994A; US6306505B1; WO02066527A3

Designated contracting state (EPC)

BE DE FR GB NL SE

DOCDB simple family (publication)

EP 0000601 A1 19790207; **EP 0000601 B1 19810826**; BR 7804713 A 19790403; DE 2860978 D1 19811119; ES 471977 A1 19790401; IT 1099019 B 19850918; IT 7825994 A0 19780721; JP S5423697 A 19790222; JP S5757082 B2 19821202; NL 7708218 A 19790125; US 4245074 A 19810113

DOCDB simple family (application)

EP 78200096 A 19780713; BR 7804713 A 19780721; DE 2860978 T 19780713; ES 471977 A 19780722; IT 2599478 A 19780721; JP 8951078 A 19780724; NL 7708218 A 19770723; US 92661678 A 19780721