

Title (en)
ACID FUNCTIONAL AND EPOXY FUNCTIONAL POLYESTER RESINS

Title (de)
SÄUREFUNKTIONELLE UND EPOXYFUNKTIONELLE POLYESTER-HARZE

Title (fr)
RESINES POLYESTER A FONCTIONS ACIDE ET EPOXY

Publication
EP 0971968 A2 20000119 (EN)

Application
EP 98920497 A 19980324

Priority

- EP 98920497 A 19980324
- EP 9801903 W 19980324
- EP 97200904 A 19970325
- US 4803698 A 19980325

Abstract (en)
[origin: WO9842768A2] Carboxyl functional polyester resins obtainable by reaction of (a) at least a compound of formula (I) wherein $x \geq 1$ wherein R1 and R2 each may represent an alkyl group having from 1 to 4 carbon atoms or wherein R1 and R2 may form together the remainder of cyclic cycloalkyl group (A1), optionally mixed with minor amounts of a corresponding compound of formula (I) wherein $x=0$, or anhydride thereof (A2), (b) at least one diol compound B, comprising two aliphatic hydroxyl groups, which may each independently be a primary or a secondary hydroxyl group; (c) optionally one dihydroxymonocarboxylic acid compound C, comprising a tertiary aliphatic carboxyl group and two aliphatic hydroxyl groups which may each independently be primary or secondary hydroxyl, and (d) optionally a trihydroxyalkane (D1) or tetrahydroxyalkane (D2); the molar ratio of compounds (A1+A2):B:C:D1:D2 being $X+Y+2Z+3Q+P:X:Y:Z:Q$, wherein X ranges from 1 to 8, Y ranges from 0 to 8, Z ranges from 0 to 4 and Q ranges from 0 to 3 and wherein P ranges from 1 to 5, preferably from 1 to 3 and is most preferably equal to 1, at a temperature of from 100 to 240, until essentially all the hydroxyl groups as initially present in the reaction mixture have been reacted; linear or branched polyglycidyl esters derived therefrom and powder coating compositions comprising one or both type of these ester types.

IPC 1-7
C08G 63/60; **C08G 59/12**; **C09D 163/00**; **C09D 167/00**

IPC 8 full level
C08G 59/12 (2006.01); **C08G 63/16** (2006.01); **C08G 63/60** (2006.01); **C09D 163/00** (2006.01); **C09D 167/00** (2006.01)

CPC (source: EP)
C08G 59/12 (2013.01); **C08G 63/16** (2013.01); **C08G 63/60** (2013.01); **C09D 163/00** (2013.01); **C09D 167/00** (2013.01)

Citation (search report)
See references of WO 9842768A2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB IT LI NL SE

DOCDB simple family (publication)
WO 9842768 A2 19981001; **WO 9842768 A3 19990121**; BR 9808045 A 20000308; EP 0971968 A2 20000119

DOCDB simple family (application)
EP 9801903 W 19980324; BR 9808045 A 19980324; EP 98920497 A 19980324