

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  
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Application  
**EP 98920497 A 19980324**

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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.

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