

Title (en)  
COMPOSITIONS FOR POWDER COATING

Publication  
**EP 0176475 A3 19880316 (DE)**

Application  
**EP 85810379 A 19850819**

Priority  
GB 8421525 A 19840824

Abstract (en)  
[origin: US4757117A] Powder coating compositions suitable for use in the manufacture of laser-engraved printing rollers, comprise (a) a difunctional epoxy resin prepared from a bisphenol, (b) an epoxy resin having an epoxide functionality greater than 2, (c) a diaminodiphenylsulphone as hardener for the mixture of resins (a) and (b), and (d) an imidazole as curing accelerator. These compositions, when applied to a metal base member, fused, and cured, provide a surface that is easily engravable yet has excellent resistance to chemical attack and physical wear. Typical difunctional epoxy resins (a) are 2,2-bis(4-glycidyloxyphenyl)propane advanced with bisphenol A, while typical epoxy resins that may be used as (b) include polyglycidyl ethers of phenol-formaldehyde novolaks. The hardener (c) may be, for example, 3,3'- and 4,4'-diaminodiphenylsulphones and the imidazole accelerator (d) may be 2-methylimidazole or benzimidazole.

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**B41N 1/12**

IPC 8 full level  
**C09D 5/03** (2006.01); **B41D 7/00** (2006.01); **B41N 1/12** (2006.01); **C09D 5/46** (2006.01)

CPC (source: EP US)  
**B41C 1/05** (2013.01 - EP US); **B41N 1/12** (2013.01 - EP US); **Y10S 525/934** (2013.01 - EP US)

Citation (search report)  
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• [A] EP 0077758 A1 19830427 - CIBA GEIGY AG [CH]  
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