

Title (en)

Method and unit for producing highly abrasion-resistant protective coverings, in particular for floor and work surfaces

Title (de)

Verfahren und Anlage zur Herstellung von einer hochabriebfesten Beschichtung insbesondere für Bodenbeläge und Werkstückoberflächen

Title (fr)

Procédé et installation pour produire un revêtement hautement résistant à l'abrasion en particulier pour les sols et les surfaces de travail

Publication

**EP 1216759 B1 20120201 (EN)**

Application

**EP 01130594 A 20011221**

Priority

IT MI20002813 A 20001222

Abstract (en)

[origin: EP1216759A2] There are provided a method and unit (1) for producing highly abrasion-resistant protective coverings, in particular for floor and work surfaces. The method includes preparing a mixture (3) of a powdered abrasion-resistant substance (4) (e.g. corundum) evenly dispersed in a polymer resin (5) suitable for subsequent polymerization and/or cross-linking; applying the mixture (3) to a substantially dry sheet material (7) (in particular, nonimpregnated paper or a dried preimpregnated material with a low wet residue); and drying the sheet material (7) coated with the mixture (3). Tests have shown the covering so formed imparts to the surfaces on which it is applied an abrasion resistance superior to that obtainable using conventional methods (e.g. in which the abrasion-resistant powder is applied, pure or dispersed in a resin, to a wet preimpregnated material). <IMAGE>

IPC 8 full level

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Citation (examination)

- US 5306523 A 19940426 - SHIBATA NORIO [JP]
- EP 0511129 A1 19921028 - ELCE ETS [FR], et al

Cited by

CN107670901A; CN106320071A; EP1502661A3; CN105903632A; CN108380456A; EP2319629A1; ITPD20090329A1; EP2942110A3; CN113171928A; EP1488938A1; JP2012524843A; ITMI20090680A1; RU2493971C2; US8445060B2; US9708769B2; WO2010121971A3

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