

Search history

Search 1: SFT=(epoxy resin) (Results 300728)
Search 2: composition* (Results 1000000)
Search 3: hardener (Results 51907)
Search 4: spray process (Results 9435)
Search 5: powder coating (Results 32806)
Search 6: 1 and 2 (Results 127889)
Search 7: 6 and 3 (Results 12822)
Search 8: 7 and 4 (Results 61)
Search 9: 8 and 5 (Results 14)
Search 10: 9 and pd<20150630 (Results 12)

Title: Powdered coating materials

Abstract: A process for the manufacture of a powdered coating material having a basis of hardenable synthetic resins, hardeners and pigments selected from the group consisting of metals, metal alloys, and mica for coatings with a metallic appearance wherein the single components are mixed in a finely divided state under an atmosphere of a protective gas and wherein the mixture is plasticized, under homogenization, at a temperature at which the viscosity of the synthetic resin is higher than the drop viscosity, but at most sufficiently high as to guarantee the flow, is homogenized by shearing stress and transformed into a powdered state, a powdered coating material prepared by said process and an article being coated with said coating material.

Classifications:

International (IPC 8-9): C08G59/00 C08J3/12 C08J3/20 C08L63/00 C08L67/00 C08L67/08 C09D167/00 C09D5/03 C09D5/38 C09D5/46 C09D7/14 C09D7/80 (Advanced/Invention); C08G59/00 C08J3/12 C08J3/20 C08L63/00 C08L67/00 C09D167/00 C09D5/03 C09D5/38 C09D5/46 C09D7/14 (Core/Invention)

International (IPC 1-7): C08J3/12 C08K3/08 C08K3/34 C09D3/48 C09D3/58 C09D3/64 C09D5/00 C09D5/10 C09D5/38 C09D5/40 C09D7/14

CPC: C09D7/80 C09D167/00 C08J3/203 C09D5/032

European: C08J3/20H C09D167/00 C09D5/03D C09D7/14

US: 260/37EP 523/440 523/442 524/296 524/300 524/306 524/431 524/432 524/437 524/439

Family:

Publication number	Publication date	Application number	Application date
AT330915 B	19760726	AT19730000437	19730119
AT43773 A	19751015	AT19730000437	19730119
DE2203024 A1	19730726	DE19722203024	19720122
FR2169081 A1	19730907	FR19730001683	19730118
FR2169081 B3	19760116	FR19730001683	19730118
GB1409375 A	19751008	GB19730002947	19730119
IT978320 A	19740920	IT19730019413	19730119
JP48083133 A2	19731106	JP19730008290	19730120
JP52022367 B4	19770617	JP19730008290	19730120
NL7300621 A	19730724	NL19730000621	19730116
NL7300621 A1	19730724	NL19730000621	19730116
US3980607 A	19760914	US19740485016	19740701

Priority:

DE19722203024 19720122 US19730324982 19730119 US19740485016 19740701

Probable Assignee: HOECHST AG

Assignee(s): (std): HOECHST AG ; REICHHOLD ALBERT CHEMIE AG ; REICHHOLD ALBERT CHEMIE DT AG

Assignee(s): REICHHOLD ALBERT CHEMIE AG DT ; HOECHST AKTIENGESSELLSCHAFT

Inventor(s): (std): JOHANNES GERHARD ; JOHANNES GERHARD DIPL CHEM

Title: POWDER COATING COMPOSITIONS

Abstract: A powder coating compositions incorporates a wax in post-blended form, the composition incorporating the wax and the same composition without the wax being separated, preferably widely separated, in a triboelectric reference series indicative of the extent to which powder coating compositions may be distinguishable from one another when electrically charged. The powder coating compositions incorporating a wax in post-blended form is especially suitable for coating articles having recessed portions. A quantitative basis is given for determining separation in the triboelectric reference series, and preferred minimum separation criteria are given. The effects obtainable using post-blended wax may be enhanced by the use, as further post-blended additives, of a combination of aluminium oxide and aluminium hydroxide.

Classifications:

International (IPC 8-9): B05D1/04 B05D1/06 B05D7/24 C08L91/06 C09D1/00 C09D123/06 C09D127/18 C09D177/00 C09D191/06 C09D5/03 C09D5/46 (Advanced/Invention); B05D7/24 C09D127/18 C09D177/00 C09D5/03 (Advanced/Non-invention); B05D1/04 B05D7/24 C09D123/00 C09D127/18 C09D177/00 C09D191/00 C09D5/03 (Core/Invention)

International (IPC 1-7): B05D 1/04 B05D1/04 B05D1/06 B05D7/24 C08K5/01 C08L91/06 C09D C09D C09D123/06 C09D127/18 C09D177/00 C09D191/06 C09D4/00 C09D5/03 C09D5/46

CPC: C09D5/033

European: C09D5/03F

US: 106/272 106/502 427/18 427/180 427/475 427/485 428/484 524/487

PatBase - US2003176558_AA

Patent Application Publication Sep. 18, 2003 Sheet 1 of 3 US 2003/0176558 A1

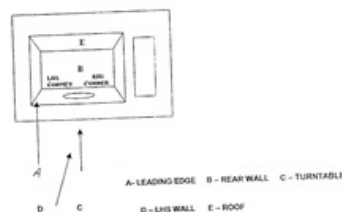


Figure 1. Measurement Positions on Microwave Cavity.

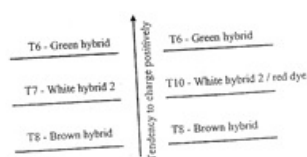


Figure 2 : Effect of Dye/Off on the Triboelectric Position of a White Hybrid

Family:

Publication number	Publication date	Application number	Application date
AU200132027 A1	20010820	AU20010032027	20010208
AU200132027 A5	20010820	AU20010032027D	20010208
AU780546 B2	20050324	AU20010032027	20010208
BRPI0108151 A	20030121	BR2001PI08151	20010208
BRPI0108151 B1	20101214	BR2001PI08151	20010208
CA2399492 AA	20020808	CA20012399492	20010208
CN1180036 C	20041215	CN20018007746	20010208
CN1422308 A	20030604	CN20018007746	20010208
CZ20022705 A3	20030416	CZ20020002705	20010208
CZ303402 B6	20120829	CZ20020002705	20010208
DE60149875 D1	20160525	DE20016049875	20010208
EP1263896 A1	20021211	EP20010904108	20010208
EP1263896 B1	20160413	EP20010904108	20010208
ES2579158 T3	20160805	ES20010904108T	20010208
GB200002844 A0	20000329	GB20000002844	20000208
GB200220337 A0	20021009	GB20020020337	20010208
GB2376022 A1	20021204	GB20020020337	20010208
GB2376022 B2	20031210	GB20020020337	20010208
HU0204390 AB	20030428	HU20020004390	20010208
HU0204390 AC	20050128	HU20020004390	20010208
HU230725 B1	20171228	HU20020004390	20010208
JP2003522272 T2	20030722	JP20010558159T	20010208
KR100741229 B1	20070719	KR20027010131	20010208
KR20020093801 A	20021216	KR20027010131	20010208
MXPA02007662 A1	20030128	MX2002PA07662	20010208
MY128462 A	20070228	MY20010000567	20010208
NO20023730 A	20020930	NO20020003730	20020807
NO20023730 A0	20020807	NO20020003730	20020807
NO20023730 L	20020930	NO20020003730	20020807
NZ521189 A	20040326	NZ20010521189	20010208
PL203953 B1	20091130	PL20010356471	20010208
PL356471 A1	20040628	PL20010356471	20010208
SK200201143 A5	20030109	SK20020001143	20010208
SK287780 B6	20110905	SK20020001143	20010208
TH53479 A	20021016	TH20011000449	20010209
TR201609211 T4	20160721	TR20160009211T	20010208
US2003176558 AA	20030918	US20020182897	20021212

US6800334 BB	20041005	US20020182897	20021212
VN4961 A1	20050725	VN20020000716	20010208
WO0159017 A1	20010816	WO2001GB00502	20010208
ZA200206300 A	20030519	ZA20020006300	20020807

Priority:

GB20000002844 20000208 EP20010904108 20010208 WO2001GB00502 20010208
KR20027010131 20020806 WO2001GB00502 20020806

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Assignee(s): INTERNATIONAL COATINGS LIMITED LONDON ; INTIONAL COATINGS LTD

Inventor(s): (std): J K PARK ; JAE KYN PARK ; JOHN TINMOUTH PAUL ; MARTYN PAUL CARE ; MP CARE ; PARK J K ; PARK JAE KYN ; PARK KAE KYN ; PARK P J TINMOUTH J K ; PAUL CARE MARTYN ; PAUL JOHN TINMOUTH ; PJ TINMOUTH ; PJ TINMOUTH J K PARK ; TIMMOUTH PAUL JOHN ; TINMOUTH P J ; TINMOUTH PAUL JOHN ; CARE M P ; CARE MARTYN PAUL ; TINMOUTH PAUL J ; CARE MARTYN P

Inventor(s): P J TINMOUTH J K PARK ; M P CARE ; P J TINMOUTH ; CARE MARTYN PAUL TYNEMOUTH ; TINMOUTH PAUL JOHN SOUTH SHIELDS ; PAUL JOHN TIMMOUTH ; PARK JAE KYN DONGSOMUN DONG SEONG BUK GU

Agent(s): FB RICE PTY LTD; FB RICE; OGILVY RENAULT LLP SENCRL SRL; MITSCHERLICH PATENT U RECHTSANWAELTE PARTMBB; AKZO NOBEL IP DEPARTMENT; DE ELZABURU ALBERTO; NAZLI TUGBA KORKUT OEZSOY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: RESIN COATED METAL SUBSTRATES

Abstract: Metal articles, in particular metal pipes, metal containers and large metal parts, preferably large pipes, are coated with cured **epoxy resin compositions**, the coating comprising a cured coating containing A) a solid **epoxy resin** based on 4,4'-diphenylolpropane and/or 4,4'-diphenylolmethane and epichlorohydrin, B) a curing catalyst and C) thixotropic agents, where the curing catalyst B) contains at least one compound B1) of the formula (I) or (II) in which R is hydrogen, or B2) an adduct of the compounds B1) or substituted compounds of these formulae in which R is as defined in Claim 1 with low-molecular-weight **epoxy resins** having an epoxide equivalent weight of from 50 to 2000, or B3) a mixture of component B1) or B2) with the abovementioned substituted compounds of the formulae (I) and (II). The metal articles are coated with a pulverulent paint based on highly reactive curable **epoxy resins** which gives, in particular, toxicologically acceptable, heat- and chemicals-resistant, electroinsulating coatings. During this operation, the articles are heated to a temperature above the melting point of the resins, but sufficient for curing the **epoxy resins**, the resins are applied to the hot surface, which has already been cleaned before the heating, in the form of pulverulent paints by the electrostatic **spray process** or the whirl sintering (fluidised-bed sintering) process, melted to form a uniform film and cured directly without a further operation. During the application and curing process of the film, cracking phenomena of the organic components of the paint are not observed, in spite of the high temperature of the substrate, so that neither discolouration of the coating nor impairment of the properties occurs. The coatings are distinguished by the absence of pores and the high impact strength and by resistance to water and aggressive liquids.

Classifications:

International (IPC 8-9): B05D7/14 B32B15/08 C08G59/50

C09D163/00 C09D163/02 F16L58/10 (Advanced/Invention);

B05D7/14 C08G59/00 C09D163/00 C09D163/02

F16L58/02 (Core/Invention)

International (IPC 1-7): B05C9/14 B05D3/02 B05D7/14 B05D7/16

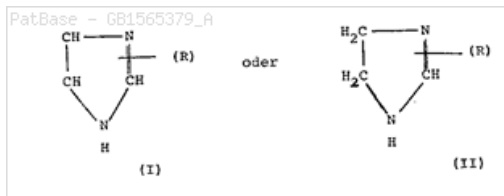
B05D7/22 B29D9/08 B32B15/08 B32B15/18 B32B15/20 B65D25/34

B65D87/08 C08G59/50 C09D3/58 C09D5/00 C09D5/08 C09D5/40

C09D5/42 F16L58/10 F16L59/00 F16L9/02 F16L9/14

CPC: C08G59/5073 C09D163/00

European: C08G59/50K3C C09D163/00



Family:

Publication number	Publication date	Application number	Application date
AR217820 A1	19800430	AR19760265919	19761220
AT367087 B	19820525	AT19760009398	19761217
AT939876 A	19811015	AT19760009398	19761217
AU197620603 A1	19780622	AU19760020603	19761216
AU511935 B2	19800911	AU19760020603	19761216
BE849544 A	19770617	BE19760173386	19761217
CA1068997 A1	19791231	CA19760267971	19761215
CH628534 A	19820315	CH19760015742	19761215
DE2557278 A1	19770630	DE19752557278	19751219
DE2557278 C2	19820401	DE19752557278	19751219
DK571076 A	19770620	DK19760005710	19761217
ES454396 A1	19780101	ES19760454396	19761218
FR2335572 A1	19770715	FR19760038146	19761217
FR2335572 B1	19781229	FR19760038146	19761217
GB1565379 A	19800416	GB19760052855	19761217
IN155826 A	19850316	IN1976CA02213	19761216
IT1065563 A	19850225	IT19760030586	19761217
JP52076335 A2	19770627	JP19760151488	19761218
NL7614033 A	19770621	NL19760014033	19761217
NO764302 A	19770621	NO19760004302	19761217
NO764302 L	19770621	NO19760004302	19761217
SE7614259 A	19770620	SE19760014259D	19761217
SE7614259 L	19770620	SE19760014259	19761217
ZA7607498 A	19771130	ZA19760007498	19761217

Priority:

DE19752557278 19751219

Probable Assignee: HOECHST AG

Assignee(s): (std): HOECHST AG

Assignee(s): HOECHST AG 6000 FRANKFURT DE ; HOECHST AKTIENGESSELLSCHAFT ; HOECHST AKTIENGESSELLSCHAFT TE FRANKFORT A D MAIN BONDSREPUBLIC DUITSLAND ; JOHANNES GERHARD ; HOECHST A G

Inventor(s): (std): GERUHARUTO YOHANESU ; JOHANNES G ; JOHANNES GERHARD ; JOHANNES GERHARD DIPL CHEM

Inventor(s): G JOHANNES ; GERHARD JOHANNES

Title: AQUEOUS **POWDER COATING** DISPERSION FOR PACKING CONTAINERS

Abstract: The present invention concerns an aqueous **powder coating** dispersion based on **epoxy resins** and phenolic **hardeners** or carboxyl group-containing polyesters for coating packing containers. The **powder coating** dispersion comprises a solid powdery component (I) and an aqueous component (II), component (I) being a **powder coating**: 1) which comprises: A) at least one **epoxy resin** having an epoxide equivalent weight of between 300 and 5500; and B) at least one **hardener** having more than one phenolic hydroxyl group per molecule and a hydroxyl equivalent weight, relative to the phenolic OH groups, of between 100 and 500, preferably between 200 and 300; or C) at least one polyester with an acid number of between 25 and 120 mg KOH/g and an OH number of more than 10 mg KOH/g; and D) at least one **epoxy resin** with an epoxide equivalent weight of between 400 and 3000; and which 2) optionally comprises catalysts, auxiliary aids and additives typical of **powder coatings**, such as degassing agents, levelling agents, scavengers and antioxidants. Component (II) is the aqueous portion of the dispersion and contains: a) at least one non-ionic or anionic thickener, the non-ionic thickener preferably being a non-ionic associative thickener; and b) optionally catalysts, auxiliary aids, antifoaming agents, wetting agents, auxiliary dispersion aids, preferably carboxyl group-containing dispersants, antioxidants, biocides, small amounts of solvent, levelling agents, neutralizing agents, preferably amines and/or water-retention agents.

Classifications:

International (IPC 8-9): C08G59/62 C09D163/00 C09D167/00 C09D167/02 C09D5/00 C09D5/02 C09D5/03 C09D5/46 (Advanced/Invention);

C08G59/00 C09D163/00 C09D167/02 C09D5/00 C09D5/46 (Core/Invention)

International (IPC 1-7): B65D23/02 B65D25/14 C08G59/62 C08G59/68 C09D163/00 C09D167/00 C09D167/02 C09D5/00 C09D5/02 C09D5/03 C09D5/46 C09D7/02 C09D7/06 C09D7/12 C09D7/14

CPC: C08G59/621 C09D163/00

European: C08G59/62B C09D163/00

Family:

Publication number	Publication date	Application number	Application date
BRP19609254 A	19990518	BR1996PI09254	19960618
CA2224864 AA	19971217	CA19962224864	19960618
DE19523084 A1	19970403	DE19951023084	19950626
EP0842233 A1	19980520	EP19960922824	19960618
JP11508308 T2	19990721	JP19970504140T	19960618
WO9701609 A1	19970116	WO1996EP02619	19960618

Priority:

DE19951023084 19950626 WO1996EP02619 19960618

Probable Assignee: PPG IND INC

Assignee(s): (std): BASF LACKE AND FARBEN ; SACHARSKI LAWRENCE ; WOLTERING JOACHIM ; CLARK PETER JOHN ; BASF COATINGS AG

Assignee(s): BASF COATINGS AKTIENGESELLSCHAFT ; CLARK PETER ; BASF LACKE UND FARBEN AKTIENGESELLSCHAFT ; PPG IND INC ; BASF LACKE AND FARBEN AG 48165 MUENSTER DE ; BASF LACKE AND FARBEN AG ; BASF LACKE U FARBEN AG

Inventor(s): (std): CLARK PETER ; SACHARSKI LAWRENCE ; WOLTERING JOACHIM ; WOLTERING JOACHIM DR

Inventor(s): SACHARSKI LAWRENCE EASTPOINTE MICH US ; WOLTERING JOACHIM DR 48145 MUENSTER DE ; SACHARSKI LAWRENCE EASTPOINTE MICH ; CLARK PETER HARTLAND MICH ; CLARK PETER HARTLAND MICH US ; JOACHIM WOLTERING ; PETER CLARK ; LAWRENCE SACHARSKI

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AT BE BR CA CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL NO PT SE US

Title: POWDER **COMPOSITIONS** FOR PRIMER COATINGS SUITABLE FOR PVDF TOP COATINGS

Abstract: Powder **compositions** comprising 5-15 wt % of PVdF-compatible thermoplastic resin, 50-90 wt % of a thermosetting binder system, 0-35 wt % of pigments and 0-3 wt % of levelling agent are suitable for later application of a pigmented PVdF-based top coating. Preferred **compositions** are based on an epoxy system containing about 8 wt % of PVdF or acrylic thermoplastic resin, 5-25 wt % of pigments and 0.7-1 wt % of levelling agent.

Classifications:

International (ipc 8-9): B05D7/14 C08G59/00 C08L63/00
C09D127/12 C09D127/16 C09D133/04 C09D133/08 C09D133/10
C09D163/00 C09D163/02 C09D167/02 C09D201/00
C09D5/03 (Advanced/Invention);
C08G59/00 C08L63/00 C09D127/12 C09D127/16 C09D133/04
C09D133/08 C09D133/10 C09D163/02 C09D167/02 C09D201/00
C09D5/03 (Advanced/Non-invention);
B05D7/14 C08G59/00 C08L63/00 C09D127/12 C09D127/16
C09D133/04 C09D133/08 C09D133/10 C09D163/00 C09D163/02
C09D167/02 C09D201/00 C09D5/03 (Core/Invention)

International (ipc 1-7): C08L63/00 C09D127/16 C09D133/06
C09D133/08 C09D133/10 C09D163/00 C09D163/02 C09D167/02
C09D201/00 C09D5/03 E04C1/00

CPC: B05D7/546 C09D163/00

European: B05D7/14 C09D163/00

PatBase - RU2139308_C1

	Пример 1	Пример 2
Твердый эпоксидный смолы II	52,45	52,45
Диспергизатор	3,75	3,75
Молочная смола В	26,7	-
Молочная смола Р	-	26,7
Эпиксидный агент М	0,8	0,8
Диспергизатор	10,3	10,3

Свойства покрытий систем были почти идентичными и таковыми:

- обратное сопротивление удару по ASTM D 2794 мм
HSCA-75 : 4 Н.м. /Пр.1/ и 3 . . /Пр.2/.

- Прочность : 96,0 по ISO 2409
/лучшее значение по шкале от 0 до 4/

- Негативная коррозия : После 2000 часов : менее чем 0,5 мм
вдоль 25 паровых

Пример 3

Групповые краски были получены со следующими составами:

71,15 р.о. в/	твердой эпоксидной смолы II
8,0 "	ПАРАЛОИД В-44 /эпоксидный смолы/
0,8 "	эпиксидный агент М
16,3 "	диспергизатор
2,75 "	диспергизатор
100,00	

Примеры 4-7

Групповые краски были получены применением следующих ингредиентов по процедуре примера 3.

	Пример 4	Пример 5	Пример 6	Пример 7
Твердый эпоксидный смолы	75,3	59,2	50,7	50,2
ПАРАЛОИД В-44	3,0	10,0	20,0	30,0
Эпиксидный агент М	0,8	0,8	0,8	0,8

Family:

Publication number	Publication date	Application number	Application date
AU199058285 A1	19910108	AU19900058285	19900622
AU636622 B2	19930506	AU19900058285	19900622
CA2056982 AA	19911112	CA19902056982	19900622
CA2056982 C	20010821	CA19902056982	19900622
EP0404752 A1	19901227	EP19900870099	19900622
EP0479811 A1	19920415	EP19900909029	19900622
JP3276082 B2	20020422	JP19900508579T	19900622
JP4506088 T2	19921022	JP19900508579T	19900622
KR100209186 B1	19990715	KR19910071943	19911221
KR19920702704 A	19921006	KR19910701943	19900622
RU2139308 C1	19991010	SU19905010878	19900622
WO9015845 A1	19901227	WO1990BE00034	19900622

Priority:

WO1989BE00031 19890622

WO1990BE00034 19900622

WO1990BE00034 19900622

Probable Assignee: FINA RESEARCH

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Inventor(s): MICHEL GILLARD ; LUDWIG KARL RIJKSE ; WILLEM SIETSES

Agent(s): FB RICE ; FB RICE PTY LTD ; GOWLING LAFLEUR HENDERSON LLP

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CM DE DK ES FI FR GA GB GR HU IT JP KP KR LI LK LU MC MG ML MR MW NL NO RO SD SE SN SU TD TG

Title: ABRADABLE DRY **POWDER COATINGS**, METHODS FOR MAKING AND COATING, AND COATED ARTICLES THEREFROM

Abstract: An abradable dry **powder coating** (22) **composition** for coating onto a surface (12) for subsequent curing to form into an abradable coating, including a powder (16) formed of uncured thermoset resin with at least 15 volume percent filler, wherein the filler does not substantially melt below the cure temperature of the resin. Method for making the coating **composition** includes melt-mixing the thermoset resin with at least 15 volume percent of filler, cooling the resulting mass composite, and then breaking the cooled mass composite into powder particles (16). Method of coating an article with an abradable coating includes applying the dry composite powder with the filler therein onto a substrate and curing the dry powder **composition**, preferably by electrostatic coating. An article is also disclosed which is coated with the abradable coating.

Classifications:

International (IPC 8-9): C08K3/00 C08K3/08 C09D5/00 C09D5/03 (Advanced/Invention)

International (IPC 1-7): C08K3/00 C08K3/04 C08K3/08 C09D5/00 C09D5/03 C09K3/14

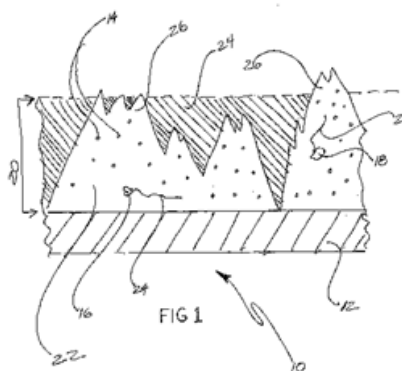
CPC: Y10S525/934 C09D5/03 C09D5/033 Y10T428/252 Y10T428/253 Y10T428/254 Y10T428/259

European: C09D5/03 C09D5/03F

US: 277/415 428/325 428/326 428/327 428/331 51/298 51/298P 523/440 523/468 524/13 524/14 524/404 524/406 524/445 524/492 524/495 524/497 524/554 524/556 524/571 524/582 524/584 524/588 524/590 524/593 524/601 524/604 524/607 524/611 525/934

PatBase - US2004111975_AA

Patent Application Publication Jun. 17, 2004 Sheet 1 of 3 US 2004/011975 A1



Family:

Publication number	Publication date	Application number	Application date
AU2001288459 AA	20020313	AU20010288459	20010829
AU200188459 A1	20020313	AU20010088459	20010829
AU200188459 A5	20020313	AU20010088459	20010829
BRPI0113780 A	20030708	BR2001PI13780	20010829
BRPI0113780 B1	20140401	BR2001PI13780	20010829
EP1328574 A1	20030723	EP20010968196	20010829
EP1328574 A4	20050810	EP20010968196	20010829
EP1328574 B1	20180411	EP20010968196	20010829
US2004111975 AA	20040617	US20020258934	20021029
US6844392 BB	20050118	US20020258934	20021029
WO0218483 A1	20020307	WO2001US26812	20010829
WO0218483 C2	20030220	WO2001US26812	20010829

Priority:

US20000228653P 20000829 WO2001US26812 20010829 US20020258934 20021029

Probable Assignee: ANDREW W SUMAN

Assignee(s): (std): ANDREW W SUMAN ; SUMAN ANDREW W

Inventor(s): (std): SUMAN ANDREW W

Inventor(s): ANDREW W SUMAN

Agent(s): CABINET CHAILLOT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: Use of blocked polyisocyanates as curing agents for binders containing hydroxyl groups.

Abstract: 1. The use of compounds containing more than one blocked isocyanate group per molecule and having an acid values of 20 to 150 and a quotient Q of NCO content (based on the sum of free and reversibly blocked isocyanate groups) and acid value of 0.075 to 0.340 as **hardeners** for binders, more especially for binders of powder-form coating **compositions**, containing hydroxyl-containing polymers and polyepoxides in quantities corresponding to an epoxide/carboxyl ratio of 0.75 to 1.25.

Classifications:

International (IPC 8-9): C08G18/00 C08G18/40 C08G18/58 C08G18/80 C08G59/40 C08G59/42 C09D175/00 C09D5/03 C09D5/46 (Advanced/Invention);
C08G18/00 C08G59/00 C09D175/00 C09D5/03 C09D5/46 (Core/Invention)

International (IPC 1-7): C08G18/42 C08G18/58 C08G18/80 C08G18/83 C08G59/40 C08G59/42 C08K5/29 C09D3/58 C09D3/64 C09D3/72 C09D5/00 C09D5/42

CPC: C08G18/4045 C08G18/003 C08G18/8048 C08G59/4028 C08G2150/20

European: C08G18/00D C08G18/40A8 C08G18/80B7 C08G59/40B2B M08G150/20

Family:

Publication number	Publication date	Application number	Application date
AT35142 E	19880715	AT19830108251T	19830822
DE3232463 A1	19840301	DE19823232463	19820901
DE3377065 D1	19880721	DE19833377065	19830822
EP0104424 A2	19840404	EP19830108251	19830822
EP0104424 A3	19850918	EP19830108251	19830822
EP0104424 B1	19880615	EP19830108251	19830822
ES525296 A0	19841101	ES19830525296	19830901
ES8500967 A1	19841101	ES19830525296	19830901
JP59062674 A2	19840410	JP19830157285	19830830

Priority:

DE19823232463 19820901 DE19833377065 19830822 EP19830108251 19830822

Probable Assignee: BAYER AG

Assignee(s): (std): BAYER AG

Assignee(s): BAYER AKTIENGESSELLSCHAFT

Inventor(s): (std): ERUBIN HOORU ; ETSUKUHARUTO DE KUROIRU ; HANSU RUDORUFU ; HANSUUYOAHIMU KUROIDAA ; RORUFUUFUORUKAA MAIYAA ; RUDOLPH HANS DR ; MEYER ROLF VOLKER DR ; KREUDER HANS JOACHIM DR ; CLEUR ECKHARD DE DR ; HOHL ERWIN DIPL ING ; DE CLEUR ECKHARD DR

Inventor(s): DE DR CLEUR ECKHARD

Designated states: AT BE CH DE FR GB IT LI NL SE

Title: SURFACE COATING PROCESS - BY DISPERSING A POWDER E.G. POLYOLEFIN, **EPOXY** **RESIN** OR LITHIUM ENAMEL IN A CARRIER, COATING AND HEATING TO REMOVE CARRIER BEFORE HARDENING

Abstract: Surfaces are coated by dispersing a film forming powder in a carrier liq., coating a surface with the compsn. and heating such that the film forming temp. of the powder is reached only after (practically) all of the carrier liq. has been removed from the surface. The process is esp. suitable for making repairs and can be carried out with relatively simple apparatus e.g. hand devices. The carrier liq. is pref. water and may contain dispersants and/or emulsifiers or stabilisers which lose their properties by heating. The powder may be thermoplastic e.g. a polyolefin or lithium enamel or a thermosetting compsn. e.g. polyester or an **epoxy resin**.

Classifications:

International (IPC 8-9): B05D3/02 B05D7/16 B05D7/26 C04B41/45 (Advanced/Invention);
B05D3/02 B05D7/16 B05D7/26 C04B41/45 (Core/Invention)

International (IPC 1-7): B05D1/02 B05D7/16 B05D7/26 C04B41/32

CPC: B05D1/10 B05D3/02 B05D3/0254 B05D7/16 B05D2401/20 C04B41/4505

European: B05D3/02 B05D7/16 B05D7/26 C04B41/45B L05D1/10 L05D3/02S L05D401/20

Family:

Publication number	Publication date	Application number	Application date
DE2637728 A1	19780223	DE19762637728	19760821

Priority:

DE19762637728 19760821

Probable Assignee: KOREL KORROSIONSSCHUTZ ELEKTRO

Assignee(s): (std): KOREL KORROSIONSSCHUTZ ELEKTRO

Assignee(s): KOREL KORROSIONSSCHUTZ ELEKTRONIK GMBH AND CO KG

Inventor(s): (std): RUELING FELIX VON

Inventor(s): VON RUELING FELIX

Title: SYNTHETIC RESINS

Abstract: A thermosetting resinous **composition** which comprises a pulverulent mixture of (A) a synthetic resin component containing free hydroxyl groups and (B) a synthetic resin component containing free carboxyl groups, both of said components having a melting point of at least 50 DEG C, a process for **powder coating** and for forming a moulded article by using said **composition**.

Classifications:

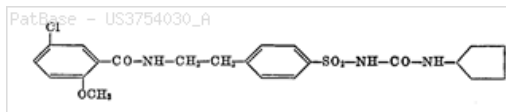
International (IPC 8-9): A61K31/17 A61K31/64 C07C301/00
C07C303/36 C07C303/40 C07C311/58 C07C311/59 C07C67/00
C07D233/96 C08L67/00 C09D167/00 C09D5/46 (Advanced/Invention);
C08L67/00 C09D167/00 C09D5/46 (Core/Invention)

International (IPC 1-7): B05B5/00 C07C127/00 C08F37/16
C08G39/00 C08G39/02 C08G39/06 C08G39/10 C08J1/00 C08J11/04 C08L101/06 C08L67/00 C08L67/02 C08L67/06
C09D3/48 C09D3/64 C09D5/40 C09D7/00 C09J C25D5/00

CPC: A61K31/17 C07D233/96 C08L67/00 Y10T428/31786 C09D167/00

European: 124BG12B3G4D6/G8 124BG18AD2B 124BG18F4S 124CA10S A61K31/17 C07D233/96 C08L67/00 C09D167/00

US: 260/55.3DA 260/86. 260/86.2 428/480 525/166 525/172 525/176 525/444 558/1 558/9 564/40 564/41



Family:

Publication number	Publication date	Application number	Application date
AT312939 B	19740125	AT19700002435	19700316
BE747467 A1	19700917	BE19700747467	19700317
CH545833 A	19740215		19700316
DE1913923 A1	19701210	DE19691913923	19690319
DE1913923 B2	19750313	DE19691913923	19690319
DE1913923 C3	19810219	DE19691913923	19690319
DE2006128 A1	19720217	DE19702006128	19700211
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NL7003958 A	19700922	NL19700003958	19700319
SE388621 B	19761011	SE19700003664	19700318
SE388621 C	19770120	SE19700003664	19700318
SE7601608 A	19760212	SE19760001608D	19760212
US3723572 A	19730327	US19700019464	19700313
US3754030 A	19730821		19700211
US3843751 A	19741022	US19720313551	19721208

Priority:

DE19691909272 19690225 DE19691913923 19690319 DE19702006128 19700211
US19700019464 19700313 US19720313551 19721208

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Assignee(s): (std): ALBERT AG CHEM WERKE ; ALBERT CHEM WERKE AG ; HOECHST AG ; REICHHOLD ALBERT CHEMIE AG

Assignee(s): HOECHST AG 6000 FRANKFURT ; REICHHOLD ALBERT CHEMIE AG DT ; CHEM WERKE ALBERT DT ; CHEMISCHE WERKE ALBERT ; CHEMISCHE WERKE ALBERT POSTFACH 9101 WIESBADEN BIEBRICH ALLEMAGNE ; HOECHST 6000 FRANKFURT AG

Inventor(s): (std): AUMULLER W ; HOTZE H ; HOTZE HERMANN ; JOHANNES REESE DIPL CHEM DR ; MUTH K ; REESE J ; REESE JOHANNES DIPL CHEM DR ; WEBER H ; WEYER R

Inventor(s): WEYER R DT ; WEBER H DT ; REESE J DT ; MUTH K DT ; JOHANNES REESE DIPL CHEM DR ; HOTZE H DT ; AUMULLER W DT

Title: PROCESS FOR PRODUCING A METAL-PLASTIC HYBRID COMPONENT

Abstract: The invention provides a process for producing a hybrid component comprising metal and plastic. The process comprises the steps of a) pretreating the metal surface by applying at least one conversion layer, b) applying at least one layer of an adhesion promoter **composition** and c) bonding the metal to the plastic. The adhesion promoter **composition** comprises at least one copolyamide-based hotmelt adhesive.

Classifications:

International (IPC 8-9): B29C45/14 B29C45/16 B29C65/40 B32B15/08 B32B15/088 B32B15/14 B32B17/06 B32B21/04 B32B21/08 B32B21/10 B32B27/00 B32B27/06 B32B27/12 B32B27/34 B32B37/12 B32B5/26 B32B5/28 B32B7/12 C08J5/12 C09J163/00 C09J175/04 C09J177/00 C09J177/06 C09J5/02 C09J7/00 C23C16/513 (Advanced/Invention)
CPC: B32B15/088 B32B21/08 B32B21/10 B32B27/34 B32B2607/00 C09J177/02 C09J177/06 C08G18/003 C08G18/798 C08G18/8061 B32B17/064 B32B17/06 C09J5/02 B29C45/14311 B29C45/1671 B32B15/08 C09J2477/00 C09J2463/00 B29C2045/14868 B29K2705/00 B32B15/14 B32B21/04 B32B37/12 B32B2605/08 B32B2605/18 B32B2457/00 B32B2037/1215 B32B2255/06 B32B2255/26 B32B2255/28 B32B2307/31 Y10T428/31511 Y10T428/31515 B32B2451/00 B32B7/12 B32B5/26 B32B27/06 B32B27/12 B32B2262/101 B32B2262/106 C09J7/00 C09J177/00 C08L63/00
US: 156/319 156/330.9 156/82 264/265 428/221 428/299.1 428/413 428/414 428/435 428/446 428/458 428/474.4 442/286

Family:

Publication number	Publication date	Application number	Application date
BR112015017978 A2	20170711	BR20151117978	20140129
BR112015017991 A2	20170711	BR20151117991	20140129
CN105229107 A	20160106	CN201480019346	20140129
CN105229107 B	20180227	CN201480019346	20140129
CN105308144 A	20160203	CN201480019263	20140129
DE102013201388 A1	20140731	DE201310201388	20130129
EP2759580 A1	20140730	EP20130002778	20130529
EP2951258 A1	20151209	EP20140702233	20140129
EP2951259 A1	20151209	EP20140702529	20140129
JP2016506882 T2	20160307	JP20150555687T	20140129
JP2016510270 T2	20160407	JP20150555686T	20140129
JP6133440 B2	20170524	JP20150555687T	20140129
KR101840099 B1	20180319	KR20157023143	20140129
KR20150113966 A	20151008	KR20157023143	20140129
KR20150113967 A	20151008	KR20157023144	20140129
US2015361304 AA	20151217	US20140764348	20140129
US2015375478 AA	20151231	US20140764392	20140129
WO14118210 A1	20140807	WO2014EP51692	20140129
WO14118211 A1	20140807	WO2014EP51693	20140129

Priority:

DE201310201388 20130129 EP20130002778 20130529 WO2014EP51693 20140129
WO2014EP51692 20140129 EP20140702529 20140129

Probable Assignee: EVONIK DEGUSSA GMBH

Assignee(s): (std): EVONIK DEGUSSA GMBH ; EVONIK IND AG ; GRUHN MAXIMILIAN ; KUHMANN KARL ; RISTHAUS MARTIN

Inventor(s): (std): KARL KUHMANN ; MARTIN RISTHAUS ; MAXIMILIAN GRUHN ; RISTHAUS MARTIN ; KUHMANN KARL ; GRUHN MAXIMILIAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PVDF-BASED **POWDER COATINGS**

Abstract: A process for preparing pigmented PVdF-based **powder coating** products is disclosed, which comprises the steps of (i) mixing PVdF resin with a compatible thermoplastic resin, preferably PMMA in a weight ratio of about 80:20 to 40:60, with pigments, and with a small amount of flow promoter, (ii) pelletizing the mixture of (i), and (iii) cryogenically grinding the pellets and sieving the large particles. Also disclosed is a process for coating a substrate, comprising the steps of (a) applying the above prepared **powder coating** product on a substrate, and (b) subjecting to a heat treatment.

Classifications:

International (IPC 8-9): B05D5/08 B29B13/04 B29B13/10 B29B9/02 B29B9/06 C08L27/16 C09D127/16 C09D133/12 C09D5/46 (Advanced/Invention);

B29C35/16 C08L27/16 C08L33/12 (Advanced/Non-invention);

B05D5/08 B29B13/00 B29B13/10 B29B9/02 C09D127/16 C09D133/10 (Core/Invention);

B29C35/00 C08L27/00 C08L33/00 (Core/Non-invention)

International (IPC 1-7): B05D1/00 B05D3/02 B29B13/10 B29B7/88 B29B9/06 B29B9/06 B29K27/00 B29K33/00 B32B5/16 C08J3/20 C08K3/00 C08L27/16 C08L33/12 C09D127/16 C09D5/03

CPC: Y10T428/2982 Y10T428/2998 B29B13/10 B05D5/083 B05D2401/32 B05D2506/10 B29B9/06 C08L27/16 C08L33/12 C09D127/16 C09D133/12 B29B9/02 B29B13/045 B29C2035/165 B29K2027/16 B29K2033/12 B29K2105/251 B29K2995/002 Y10T428/31511 Y10T428/3154

European: B05D5/08C B29B13/04C B29B13/10 B29B9/02 B29B9/06 C08L27/16 C09D127/16 C09D133/12 L05D401/32 L05D506/10 L29B227/12 L29B233/00 L29C35/16B2D L29K105/25B L29K27/16 L29K33/12 L29K995/00E2 M08L27/16 M08L33/12

US: 264/118 264/141 264/28 427/195 427/221 428/402 428/407 428/413 428/421 523/307 524/407 524/413 524/447 524/520

Family:

Publication number	Publication date	Application number	Application date
AT195093 E	20000815	AT19870120960T	19870826
AT77290 E	19920715	AT19870870118T	19870826
DE3752320 D1	20000907	DE19873752320	19870826
DE3752320 T2	20010208	DE19873752320T	19870826
DE3779841 D1	19920723	DE19873779841	19870826
DE3779841 T2	19921224	DE19873779841T	19870826
EP0259290 A2	19880309	EP19870870118	19870826
EP0259290 A3	19900221	EP19870870118	19870826
EP0259290 B1	19920617	EP19870870118	19870826
EP0483887 A2	19920506	EP19910120960	19870826
EP0483887 A3	19930908	EP19910120960	19870826
EP0483887 B1	20000802	EP19910120960	19870826
ES2032868 T3	19930301	ES19870870118T	19870826
ES2149756 T3	20001116	ES19910120960T	19870826
GB2194539 A1	19880309	GB19860021109	19860901
GB2194539 B2	19900801	GB19860021109	19860901
GB8621109 A0	19861008	GB19860021109	19860901
GR3004956 T3	19930428	GR19920401280T	19920618
GR3034703 T3	20010131	GR20000402392T	20001030
US4770939 A	19880913	US19870089882	19870827
US5030394 A	19910709	US19880268840	19881108

Priority:

GB19860021109 19860901 EP19870870118 19870826 US19880268840 19881108

Probable Assignee: LABOFINA SA

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Assignee(s): LABOFINA S A ; LABOFINA 52 RUE DE L'INDUSTRIE BRUSSELS A CORP OF ; LABOFINA 52 RUE DE L'INDUSTRIE BRUSSELS A CORP OF BELGIUM SA ; LABOFINA 52 RUE DE L'INDUSTRIE BRUSSELS A CORP OF BELGIUM SA ; FINA RESEARCH S A ; FINA RESEARCH S A FELUY ; FINA RESEARCH S A SENEFFE BE ; FINA RESEARCH SA

Inventor(s): (std): PLANTENGA TJALLING M ; SIETSES WILLEM ; PLANTENGA TJALLING MEINOU ; DEKERK JEAN PAUL ; PLANTENGA TJALLING MEINOU ; DEKERK JEAN LUC

Inventor(s): PLANTENGA TJALLING MEINOU NL 3633 EJ VREELAND NL ; SIETSES WILLEM NL 1423 CP UITHOORN NL ; WILLEM SIETSES ; TJALLING MEINOU PLANTENGA ; JEAN PAUL DEKERK ; DEKERK JEAN LUC B 6700 ARLON BE

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

Title: SOFT FEEL **POWDER COATING** HAVING ANODIZED LOOK

Abstract: A **powder coating composition** is provided that has an anodized look when cured. This **powder coating composition** comprises the following ingredients: a. a binder resin, b. a solvent soluble dye, c. a matting effect compound, d. a polymer A composed of particles having an average particle size of 0.1-60 micrometres and having a Tg of from -60? to 75?, and e. less than 10 weight percent of a pigment or dye that is insoluble in a solvent, the weight percent based on the total weight of the **powder coating composition**. A substrate having an anodized look which has an ADE-index above 3 is also provided.

Classifications:

International (IPC 8-9): C09D5/03 C09D7/12 (Advanced/Invention)

CPC: C09D7/42 C09D7/65 C09D7/69 C08L33/00 C08L2207/53 C09D5/032 C09D5/03 B05D5/00 B05D7/14 C09D5/031 C09D5/035 C09D201/00

Family:

Publication number	Publication date	Application number	Application date
CN103443212 A	20131211	CN201280014701	20120413
CN103443212 B	20160316	CN201280014701	20120413
KR20140019387 A	20140214	KR20137027393	20120413
WO12139520 A1	20121018	WO2012CN073991	20120413

Priority:

WO2011CN072724 20110413 EP20110177587 20110815 CN201280014701 20120413
WO2012CN073991 20120413

Probable Assignee: AKZO NOBEL NV

Assignee(s): (std): AKZO NOBEL NV ; AKZO NOBEL POWDER COATINGS NINGBO CO LTD ; WANG XIAODONG ; ZENG PU

Assignee(s): AKZO NOBEL POWDER COATINGS NINGBO CO

Inventor(s): (std): ZENG PU ; WANG XIAODONG

Agent(s): ZHONGZI LAW OFFICE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW