Powder Coatings

US Industry Study with Forecasts for 2013 & 2018

Study #2518 | June 2009 | $4700 | 238 pages
## Table of Contents

**EXECUTIVE SUMMARY**

**MARKET ENVIRONMENT**

General .............................................. 4
Macroeconomic Overview ....................... 5
Demographic Outlook ............................ 9
Personal Consumption Expenditures ............ 12
Manufacturing Sector Outlook .................. 14
Historical Market Trends ...................... 17

Environmental & Regulatory Considerations ... 20
The Environmental Protection Agency ......... 20
The Occupational Safety & Health Administration ... 22
World Powder Coatings Demand ............... 22

**RAW MATERIALS & TECHNOLOGY**

General ........................................... 25
Raw Materials .................................... 26
Resins ............................................ 27
Thermosetting Resins ......................... 28
Thermoplastic Resins .......................... 31
Pigments ......................................... 31
Additives ........................................ 33
Crosslinking Agents ............................ 33
Flow Control Additives ....................... 34
Photoinitiators ................................ 35
Other Additives ................................ 35
Manufacturing .................................. 37

Application Technology .......................... 38

Electrostatic Deposition ....................... 40
Fluidized Bed ................................... 42
Curing Ovens ................................... 42

**OVERVIEW**

General ........................................... 44
Industrial Coatings Overview ................... 46
Industrial Coating Types ....................... 48
Industrial Coating Formulations ............... 51
Advantages & Disadvantages of Powder Coatings ... 53

Pricing Trends ................................... 57

**PRODUCTS**

General ........................................... 60

Thermoset Powder Coatings ....................... 63
Performance Characteristics of Major Thermosets ... 66

Epoxy ............................................ 68
Epoxy/Polyester Hybrids .......................... 71

Polyesters ....................................... 73
Polyurethanes ................................... 76
Acrylic .......................................... 79
Silicone ......................................... 80

Suppliers of Thermoset Powder Coatings ........... 82
Thermoplastic Powder Coatings .................. 83
Performance Characteristics of Major Thermoplastics ... 85

Polyvinyl Chloride ............................. 87
Nylon ............................................ 90

Other Thermoplastic Powder Coatings .......... 92

Ethylene Acrylic Acid Copolymer ............... 93
Fluoropolymer .................................. 93

Polyethylene .................................... 94
Polypropylene ................................... 95

Thermoplastic Polyester ........................ 95

Suppliers of Thermoplastic Powder Coatings ........... 96

**MARKETS**

General ........................................... 98

Motor Vehicles ................................ 100

Motor Vehicle Overview .......................... 101
Powder Coatings Demand ...................... 104

Exterior Applications ........................... 107

Advantages ...................................... 110
Disadvantages .................................. 110

Engine & Mechanical Applications ............. 111

Interior Applications ............................ 112
Appliances & Housewares ....................... 113
Appliances & Housewares Overview ............. 113

Powder Coatings Demand ...................... 115

Major Appliances ................................ 118
Small Appliances & Related Equipment .......... 119
Housewares & Fixtures ......................... 120

Furniture ....................................... 120

Furniture Industry Overview .......................... 121
Powder Coatings Demand ...................... 123

Industrial Machinery ........................... 125

Machinery Overview ............................. 126

Powder Coatings Demand ...................... 127

Lawn & Garden Equipment ...................... 130
Lawn & Garden Equipment Overview .......... 130

Powder Coatings Demand ...................... 132

Construction Materials ....................... 134

Construction Overview ........................ 135

Powder Coatings Demand ...................... 138

Residential Building Applications ........ .... 141
Nonresidential Building Applications .......... 142
Nonbuilding Applications ...................... 142

Other Markets ................................... 143

Sporting Goods & Recreational Equipment ........ 144

Sporting Goods & Recreational Equipment Overview .... 145

Electrical & Electronic Equipment ............... 148

Electrical & Electronic Equipment Overview ...... 149

Powder Coatings Demand ...................... 151

All Other Markets ................................ 153

**INDUSTRY STRUCTURE**

General ........................................... 155
Market Share .................................... 156

Acquisitions, Divestitures & Industry Restructuring ... 162
Distribution ..................................... 165

Marketing & Competitive Strategies ............ 166
Research & Development ....................... 169

**COMPANY PROFILES**

Akzo Nobel .................................... 172
AmeriCoats .................................... 175
Arkema SA ...................................... 176
BASF SE ........................................ 178
Bayer AG ....................................... 179
Cardinal Industrial Finishes .................... 181
Cytec Industries ................................ 182
Diamond Vogel Paints .......................... 183
DIC Corporation ................................ 185
Dow Chemical ................................... 187
DuPont (EI) de Nemours .......................... 191
Eastman Chemical ............................... 196
Environmental Coatings ....................... 197
Evonik Industries .............................. 198

(continued on next page)
Table of Contents

COMPANY PROFILES
(continued from previous page)

Henkel AG .............................................. 200
Hexion Specialty Chemicals .................. 201
Huntsman Corporation .......................... 203
Mitsui Chemicals ................................. 205
Nippon Paint .......................................... 206
Nordson Corporation .............................. 207
Pioneer Powder ..................................... 209
Powder Technology ............................... 210
PPG Industries ....................................... 212
ProTech/Oxyplast Group ....................... 214
Reichhold Incorporated ......................... 217
Royal DSM ............................................. 218
RPM International ................................ 220
Sherwin-Williams Company .................... 222
Spraylat Corporation ............................. 224
Thermoclad Company ............................ 225
3M Company .......................................... 227
TIGER Coatings ...................................... 228
Valspar Corporation ............................... 230
Weilburger Coatings ......................... 232
Whitford Corporation ............................. 233
Additional Companies Mentioned in Study 235

List of Tables/Charts

EXECUTIVE SUMMARY
1 Summary Table ...................................... 3

MARKET ENVIRONMENT
1 Macroeconomic Indicators ................... 9
2 Population & Households .................... 12
3 Personal Consumption Expenditures ... 14
4 Manufacturers’ Shipments .................. 17
5 Powder Coatings Demand, 1998-2008 19
6 Cht Powder Coatings Demand, 1998-2008 19
7 Cht World Powder Coatings Demand by Region, 2008 24

RAW MATERIALS & TECHNOLOGY
1 Raw Material Demand in Powder Coatings .................. 27

OVERVIEW
1 Industrial Coatings Demand ............... 48
2 Industrial Coatings Demand by Type ... 50
3 Industrial Coatings Demand by Formulation .... 53
4 Advantages & Disadvantages of Powder Coatings .... 56
5 Powder Coatings Prices ....................... 59

PRODUCTS
1 Powder Coatings Demand by Type .... 63
2 Thermoset Powder Coatings Demand by Type & Market .... 65
3 Comparable Performance Characteristics of Major Thermoset Powder Coatings .... 68
4 Epoxy Powder Coatings Demand by Market & Application .... 71
5 Epoxy/Polyester Hybrid Powder Coatings Demand by Market .... 73
6 Polyester Powder Coatings Demand by Market .... 76
7 Polyurethane Powder Coatings Demand by Market .... 78
8 Acrylic Powder Coatings Demand .... 80
9 Silicone Powder Coatings Demand .... 81
10 US Thermoset Powder Coatings Sales by Company, 2008 .... 83
11 Thermoplastic Powder Coatings Demand by Type & Market .... 85
12 Comparable Performance Characteristics of Major Thermoplastic Powder Coatings .... 87
13 Polyvinyl Chloride Powder Coatings Demand .......... 90
14 Nylon Powder Coatings Demand .......... 92
15 Other Thermoplastic Powder Coatings Demand .......... 93
16 Cht US Thermoplastic Powder Coatings Sales by Company, 2008 .... 97

MARKETS
1 Powder Coatings Demand by Market .......... 100
2 Motor Vehicle Indicators ................. 104
3 Motor Vehicle Market for Powder Coatings by Type & Application .......... 107
4 Appliance Shipments ...................... 115
5 Appliances & Housewares Market for Powder Coatings by Type & Application .......... 117
6 Furniture Shipments ...................... 122
7 Furniture Market for Powder Coatings by Type .......... 125
8 Machinery Shipments .................. 127
9 Industrial Machinery Market for Powder Coatings by Type .......... 129
10 Power Lawn & Garden Equipment Shipments .......... 131
11 Lawn & Garden Equipment Market for Powder Coatings by Type .......... 134
12 Construction Expenditures .......... 138
13 Construction Materials Market for Powder Coatings by Type & Sector ...... 141
14 Other Markets for Powder Coatings by Type & Market .......... 144
15 Sporting Goods & Recreational Equipment Shipments .......... 146
16 Sporting Goods & Recreational Equipment Market for Powder Coatings .......... 148
17 Electrical & Electronic Equipment Shipments .......... 151
18 Electrical & Electronic Equipment Market for Powder Coatings by Application .......... 153
19 All Other Markets for Powder Coatings .......... 154

INDUSTRY STRUCTURE
1 US Powder Coatings Sales by Company, 2008 .......... 158
2 Cht US Powder Coatings Sales by Company, 2008 .......... 159
3 Selected Acquisitions & Divestitures .......... 164
4 Research & Development Spending Patterns, 2006-2008: Selected Powder Coating Suppliers .... 171
US demand to grow 3.5% annually through 2013

US powder coatings demand is projected to expand 3.5 percent annually to 445 million pounds in 2013. Volume growth is expected to significantly outpace the gains of the 2003-2008 period as durable goods shipments are forecast to rebound from a weak 2008 base. Powder coatings will continue to achieve gains above the overall paint and coatings market average, taking share from competing products. However, advances in powder coatings market value will continue to be restrained by downward pricing pressure, as overcapacity in the industry persists and the manufacture of durable goods shifts to developing regions, particularly Asia.

Motor vehicle market to provide strongest gains

Motor vehicle coatings are primarily used in durable goods markets such as motor vehicles, appliances, and housewares, furniture, industrial machinery, and lawn and garden equipment. The motor vehicle market will provide the strongest gains through 2013 based largely on an expected rebound in motor vehicle output following the significant declines of the 2003-2008 period. Product developments which will allow for greater use of powder coatings in exterior applications will also offer opportunities for growth in this market. On the other hand, demand in appliances and housewares will be restrained by market maturity, as well as continued declines in appliance shipments, which reflect the inroads that imports have made in both small and major household appliances. The furniture market will benefit from an improving outlook for furniture production, as well as from the development of powder coatings that can be used on wood and plastic substrates.

Thermoset powder coatings dominate industry

Thermoset powder coatings (e.g., epoxy, epoxy/polyester hybrid, polyurethane, polyester, acrylic, and silicone) represent the vast majority of the overall powder coatings market, accounting for 91 percent of demand in 2008. Epoxy is the single largest product type in the thermoset segment, favored for its excellent corrosion and chemical resistance in interior applications. Epoxy/polyester hybrids are also well-represented and combine the best characteristics of straight epoxy and polyester powder coatings. The superior resistance to weathering demonstrated by polyester and polyurethane powder coating formulations makes these the products of choice for exterior applications. Smaller volume types include acrylic and silicone coatings, which are expected to experience above-average growth from relatively small 2008 bases, with silicone benefitting from its use in high heat applications.
MARKETS

Powder Coatings Demand

Demand for powder coatings in the furniture market is forecast to advance 2.3 percent per annum, reaching 56 million pounds in 2013. Despite being below-average, gains will reflect a generally favorable forecast for furniture shipments, where advances will improve from the performance of the 2003-2008 period. Additionally, demand from the furniture market will benefit from the continued penetration of powder coatings into a range of furniture applications, from an excellent environmental profile and good application efficiency, particularly in the coating of large or complex metal parts.

As is the case in other markets such as appliances and lawn and garden equipment, the furniture market will be affected by the increased penetration of plastics into fixtures, furniture components, and whole units (such as patio chairs and tables). Though some plastics may be coated, the vast majority are not, and therefore, powder coatings demand will continue to be related primarily to metal furniture components. However, demand will benefit from developments in powder coating technology which will allow the coating of plastic and wood substrates, including medium-density fiberboard. Powders are widely used for commercial furniture, though these coatings are also finding new interior residential applications, such as wire mesh shelving designed for pantries and closets.

Powders are commonly used to coat metal furniture, as they are ideally suited to finish the complex shapes typically used in the manufacture of tubular outdoor furniture, where powders can be used to provide attractive, durable and weather resistant coatings. Other furniture applications include metal home and office furniture, as well as metal components used in nearly all types of furniture. Typical applications include bedframes, bedsprings, benches, chair bases, desks, dinette sets, filing cabinets, hospital beds, partitions, patio furniture, security safes,
Diamond Vogel Paints
1110 Albany Place Southeast
Orange City, IA 51041
712-737-8880
http://www.diamondvogel.com

Annual Sales: $145 million (verified by company, 5/09)
Employment: over 800 (verified by company, 5/09)

Key Products: triglycidyl isocyanurate, polyester, urethane, epoxy and hybrid powder coatings

Diamond Vogel Paints manufactures heavy-duty protective and industrial coatings, and interior and exterior architectural paints. The Company is privately held.

The Company is active in the US powder coatings industry through the manufacture and sale of industrial powder coatings sold under the PERIDIUM tradename. These coatings are available in triglycidyl isocyanurate polyester, urethane, epoxy and hybrid varieties. Diamond Vogel Paints utilizes a proprietary manufacturing technology in the production of PERIDIUM powder coatings that allows for a tightly controlled particle size distribution that results in optimized first pass transfer, edge coverage and smoothness. Many of these coatings feature enhanced corrosion resistance and are suitable for use in appliance, agricultural equipment, construction equipment, electrical enclosure, lawn furniture, automotive underhood and other applications.

A representative product is the PERIDIUM series of epoxy/polyester hybrid powder coatings. These coatings feature enhanced adhesion and resistance properties, making them a suitable economical alternative to pure epoxy powder coatings. Specific end uses for these

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TABLE V-5

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<th>Item</th>
<th>1998</th>
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<th>2008</th>
<th>2013</th>
<th>2018</th>
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<td>2140</td>
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<td>Other Markets</td>
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<td>192</td>
<td>203</td>
<td>250</td>
<td>310</td>
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</tbody>
</table>

“Demand for epoxy/polyester hybrid powder coatings is expected to climb 3.9 percent per year to 98 million pounds in 2013, with a market value of $250 million. Demand will continue to be supported by the supplantation of other coating systems, including traditional liquid coatings, as well as straight epoxy powder coatings. However, hybrid powder coatings are unsuitable for most outdoor applications due to their epoxy component. This will serve to limit overall gains in demand.”

--Section V, pg. 71
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Metal Finishing Chemicals
US metal finishing chemicals demand will reach $2.2 billion in 2013, driven in part by more demand for higher-value and safer alternative chemicals. Plating chemicals will remain dominant while the proprietary additives and other chemical segment will grow the fastest. The key transportation equipment market will record the most rapid gains. This study analyzes the US metal finishing chemical industry, with forecasts for 2013 and 2018 by product, substrate and market. It also evaluates market share and profiles industry players.
#2533 .......................... 07/2009 ......................... $4600

Wood Protection Coatings & Preservatives
US demand for wood protection products is forecast to increase 2.2% per year through 2013. Higher value formulations will continue to gain market share, primarily due to environmental and performance issues. Interior wood applications will achieve the best gains, promoted by a rebound in both housing starts and remodeling. This study analyzes the $2.7 billion US wood protection industry, with forecasts for 2013 and 2018 by product, application and market. It also evaluates market share and profiles industry players.
#2509 .......................... 07/2009 ......................... $4800

Printing Inks
US printing ink demand will reach $4.8 billion in 2013, supported by shifts toward more environmentally friendly ink formulations and digital inks. Among raw materials, additives and colorants will benefit from demand for better performing printing inks with brighter colors. Packaging will remain the largest and fastest-growing market. This study analyzes the US printing ink industry, with forecasts for 2013 and 2018 by raw material, product and market. It also evaluates company market share and profiles industry players.
#2462 .......................... 02/2009 ......................... $4700

Paint & Coatings
US demand for paint and coatings will rise 3.1% annually through 2012, aided by an improving outlook for construction and manufacturing activity and favorable export opportunities. A rebounding residential market will pace the dominant architectural paint segment, with interior paint outpacing exterior. This study analyzes the $19.7 billion US paint and coating industry, with forecasts for 2012 and 2017 by market, application, end use and formulation. It also evaluates company market share and profiles industry players.
#2386 .......................... 08/2008 ......................... $4600

World Architectural Paints
Global demand for architectural paints will grow 3.9% annually through 2011. Gains will be paced by developing Asia/Pacific countries, especially China and India. Water-based paints will continue to supplant solvent-based types to claim 73% of demand. This study analyzes the 17.8 million metric ton world architectural paint industry, with forecasts for 2011 and 2016 by formulation, market, end user, world region and for 23 major countries. It also evaluates company market share and profiles major players.
#2311 .......................... 02/2008 ......................... $5600

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