

Table of Contents

Chapter 1: Introduction

I. Introduction	1.1
LPS Overview	1.2
Sections of the Study	1.2
Sampling	1.2
<u>Figure 1.1</u> : Total Sampling by Target Group	1.2
Supplier Sampling	1.3
<u>Figure 1.2</u> : Index of Size Breakdown Scheme	1.3
<u>Figure 1.3</u> : Proportion of Suppliers in Sample, by Category	1.3
<u>Figure 1.4</u> : Interviewed Suppliers, by Ownership.	1.4
<u>Figure 1.5</u> : Interviewed Suppliers, by Size	1.4
<u>Figure 1.6</u> : Average No. Employees - ACC Sales Staff/ACC Supplier (Sample Only)	1.5
End-User Sampling	1.6
<u>Figure 1.7</u> : Interviewed End Users Details, by Industry	1.6
<u>Figure 1.8</u> : Interviewed End-Users Ownership, by Industry	1.6
II. Definitions and Process	1.7
Key Definitions of Terms Used in this Report	1.7

Coatings	1.7
Epoxy-based ACC	1.7
Chlorinated Rubber-based ACC	1.8
Alkyd-based ACC	1.8
Metallic Coatings	1.9
Zinc-Rich Coatings	1.9
Organic Zinc-Rich Coatings	1.9
Powder Coatings	1.10
Waterborne Coatings	1.10
Methodology Market Size Estimate	1.11
<u>Figure 1.9: End Users in Each Industry (2008)</u>	1.11
Detail of End-User Profiles by Industry	1.12
<u>Figure 1.10: Shipyards in China, by Company Size and Ownership (2008 data)</u>	1.12
Container	1.12
<u>Figure 1.11: Production of Containers in China by Region</u>	1.12
Petrochemical	1.13
<u>Figure 1.12: Repartition of Petrochemical ACC Customers in China 2008</u>	1.13
Chemical	1.13
<u>Figure 1.13: Customers of Chemical ACC in China, by Region 2008</u>	1.13
Transport	1.14
<u>Figure 1.14: Transport Industry Company Count (using ACC)</u>	1.14
Construction	1.14
<u>Figure 1.15: Construction Companies in China, by Region 2008</u>	1.14
Power/Energy	1.15
<u>Figure 1.16: Overview of Power ACC Customers 2008</u>	1.15
Metallurgy	1.15
<u>Figure 1.17: Overview of Metallurgy ACC Customers 2008</u>	1.15
Hardware Appliances	1.16
<u>Figure 1.18: Producers of Hardware Appliances in China</u>	1.16
Geographic Segmentation	1.17
GCiS China Segmentation	1.17
Locations by Tier in China	1.18
Chapter 2: Total Analysis	2.1
I. Total Analysis	2.1
Market in Sum	2.1
<u>Figure 2.1: Summary of Key Market Figures- China 2008 ACC Market</u>	2.3
<u>Figure 2.2: China ACC Market Size Figures- New vs Recoats</u>	2.3
<u>Figure 2.3: Key Benchmark Data- China ACC Market</u>	2.4

<u>Figure 2.4:</u> Information on China ACC Market's Main Events	2.5
<u>Figure 2.5:</u> Snapshot of Key Market Entry Issues	2.5
I. Key Findings	2.6
Market Drivers, Inhibitors	2.7
Main Market Drivers	2.7
Main Market Inhibitors	2.8
<u>Figure 2.6:</u> Drivers and Inhibitors – Chart	2.9
Regulatory Factors	2.10
Key Findings	2.10
<u>Figure 2.7:</u> Relevant Government Bodies and Non -Government Associations	2.10
<u>Figure 2.8:</u> Growth Factors- Supplier Ratings	2.11
<u>Figure 2.9:</u> GCiS China Market Opportunities	2.11
Opportunity Matrix	2.12
<u>Figure 2.10:</u> Market Opportunity Matrix for High-End ACC Suppliers, by Industry	2.12
<u>Figure 2.11:</u> Suppliers Opportunities Ratings, by Industry (1 to 10, with 10 highest)	2.13
<u>Figure 2.12:</u> Market Opportunity Matrix for High-End ACC Suppliers, by Industry	2.14
<u>Figure 2.13:</u> Suppliers Opportunities Ratings, by Industry (1 to 10, with 10 highest)	2.14
Corporate and Regulatory News	2.15
Marine	2.15
Container	2.15
Petrochemical/Chemical	2.15
Transport	2.15
Construction	2.16
Power	2.16
Metallurgy	2.16
Expert Views (High Level Interviews)	2.17
Conclusion & Recommendations	2.18
Particularly for SMEs	2.18
II. Market Figures	2.19
Key Findings	2.19
Market Figures Overview	2.20
Market Size Figures	2.20
<u>Figure 2.14:</u> ACC Market Size and Share by Industry	2.20
<u>Figure 2.15:</u> ACC Market Size and Share by Industry- Chart	2.20

<u>Figure 2.16</u> : ACC Market Size and Share by Product Technology	2.21
<u>Figure 2.17</u> : ACC Market Size and Share by Product Technology- Chart	2.21
Market Value Chain	2.22
<u>Figure 2.18</u> : China ACC Market Value Chain	2.22
Supplier Revenues	2.24
<u>Figure 2.19</u> : Market Shares in the China ACC Market	2.24
<u>Figure 2.20</u> : Market Shares in the China ACC Market- Chart	2.24
Sales Revenues by Region	2.25
<u>Figure 2.21</u> : Sales Revenues by Region (2008)	2.25
<u>Figure 2.22</u> : Sales Revenues by Region (2008) - Chart	2.25
Regional Consumption	2.26
<u>Figure 2.23</u> : Consumption by Industry and Region	2.26
<u>Figure 2.24</u> : Classification of Provinces by Region	2.26
Sales Revenues by Industry	2.27
<u>Figure 2.25</u> : Sales Revenues- China ACC Market, by Industry (RMB BN)	2.27
<u>Figure 2.26</u> : Sales Revenues by Industry and by Core Technology (2008)	2.27
Sales Revenues by Core Technology	2.28
<u>Figure 2.27</u> : Sales Revenues- China ACC Market, by Core Technology (RMB BN)	2.28
<u>Figure 2.28</u> : Sales Revenues by Core Technology and by Industry (2008)	2.28
New Sales vs. Retrofit, by Industry	2.29
<u>Figure 2.29</u> : China ACC New Sales/Retrofit Market, by Industry	2.29
<u>Figure 2.30</u> : China ACC New Sales/Retrofit Market, by Industry - Chart	2.29
Product Details	2.30
Low/Mid/High-End	2.30
<u>Figure 2.31</u> : Product Lifespan- Supplier Ratings of their Own Products	2.30
<u>Figure 2.32</u> : Categorization of Product Ranges by Suppliers	2.30
<u>Figure 2.33</u> : Categorization of Product Ranges by Suppliers- Chart	2.31
Technical Ratings by Suppliers	2.31
<u>Figure 2.34</u> : Average Recommended Layer Thickness by Suppliers (μm)	2.31
Pricing	2.32
<u>Figure 2.35</u> : Average Prices by Product Technology and by Industry (RMB/Ton)	2.32
Pricing/Profits	2.32
<u>Figure 2.36</u> : Reported Pricing/Profit Trends- China ACC Market - Supplier Data	2.32
Growth Rates and Forecast	2.33
Market Growth	2.33
<u>Figure 2.37</u> : Weighted Growth Rate, by Segment (2008)	2.33
Forecast Scenarios – Total Market	2.34
<u>Figure 2.38</u> : 2008 to 2013 China ACC Market Forecast	2.34

<u>Figure 2.39</u> : 2008 to 2013 China ACC Market Forecast	
- Total Market - Chart	2.34
Forecast Scenarios – New vs. Retrofit Market	2.35
<u>Figure 2.40</u> : 2008 to 2013 China ACC Market Forecast	
- Coating of New Items	2.35
<u>Figure 2.41</u> : 2008 to 2013 China ACC Market Forecast- Retrofit Market	2.35
III. Competitive Analysis	2.36
Key Findings	2.36
<u>Figure 2.42</u> : China ACC Market by Foreign/Domestic	2.36
Dynamics of this Market	2.37
Concentration of Suppliers	2.37
Foreign vs. Domestic Suppliers	2.37
Marketing Channels	2.37
<u>Figure 2.43</u> : Main Marketing Activity of Suppliers	2.37
Role of Channel Partners	2.38
<u>Figure 2.44</u> : Services Provided by Channel Partners	2.38
Profits and Value Added	2.38
<u>Figure 2.45</u> : Profit Margins of Suppliers	
-(Supplier Data- Weighted by Target Revenue)	2.38
Exports	2.39
<u>Figure 2.46</u> : Exports Rate, by Ownership	2.39
<u>Figure 2.47</u> : Export Destinations of Selected Suppliers (2008 Data)	2.39
Investment in Capacity Expansion	2.40
<u>Figure 2.48</u> : Output Capacity Use, by Industry	2.40
<u>Figure 2.49</u> : Planned Capacity Increase- 2008 to 2010	2.40
Suppliers/Customers Relationships	2.45
<u>Figure 2.50</u> : ACC Suppliers and State-Owned ACC	
Customers Relationships	2.45
Five-Forces Analysis	2.46
<u>Figure 2.51</u> : Five Forces Analysis	2.47
Assessment of Market Leaders	2.48
<u>Figure 2.52</u> : Ratings of Market Leaders Strengths and Weaknesses	2.48
Strengths	2.48
Weaknesses	2.48
Key Comments on Market Leaders	2.48
IV. End User Analysis	2.49
Key Findings	2.49
Summary of ACC End-Users	2.50
<u>Figure 2.53</u> : End-Users in Each Industry- 2008 Data	2.51

Qualitative Summary of Customers	2.52
Purchasing Process	2.53
Decision Making	2.53
<u>Figure 2.54: Perceived Main Decision Makers- Supplier Data</u>	2.53
Perceived Purchase Criteria	2.54
<u>Figure 2.55: Perceived Main Purchase Criteria- Supplier Data</u>	2.54
Sales & Purchase Channels	2.54
<u>Figure 2.56: Sales Channels of Suppliers</u>	2.54
Sales & Application Channels	2.55
<u>Figure 2.57: Direct Sales/Sales with Application by Supplier, by Industry.</u>	2.55
<u>Figure 2.58: Third Party Involved in Application</u>	2.55
Market Feedback	2.56
Product Ratings by End-Users	2.56
<u>Figure 2.59: Product Lifespan- End-User Ratings</u>	2.56
<u>Figure 2.60: Average Recoating Rate, by Industry (in Years)</u>	2.56
Feedback on Main Market Trends	2.57
<u>Figure 2.61: Delays in Purchase due to the Economic Situation</u>	
- (weighted by Purch.)	2.57
Key Comments by Market Players on Purchase Issues	2.58
Purchasing Process (Channel Players)	2.58
Profit Margins (Channel Players)	2.58
Pricing and Product (Suppliers)	2.58
Market Trends (Suppliers)	2.59
Chapter 3: Segment Analysis	3.1
I. Marine/Shipping	3.2
Key Findings	3.2
<u>Figure 3.1: Revenues, Output, Growth and Pricing by Market Tier</u>	3.2
ACC Suppliers in This Market	3.3
<u>Figure 3.2: Industry Leaders ACC Sales (RMB MN) - Marine Industry</u>	3.3
<u>Figure 3.3: Industry Leaders ACC Sales (RMB MN)</u>	
- Marine Industry- Chart	3.3
Marine ACC Market by Region	3.4
<u>Figure 3.4: ACC Sales by Region – Marine Industry</u>	3.4
Marine ACC Market by Product Technology	3.4
<u>Figure 3.5: ACC Sales by Product Technology – Marine Industry</u>	3.4
Customers	3.5
Market Dynamics	3.5
Decision Making	3.5
<u>Figure 3.6: Perceived Decision Makers - Marine - Supplier Data</u>	3.5

Third Party Involvement	3.6
Purchase Criteria	3.6
<u>Figure 3.7: Perceived Purchase Criteria- Marine - Supplier Data</u>	3.6
ACC Sales & Application Channels- Marine Industry	3.7
<u>Figure 3.8: ACC Sales Channels- Marine Industry</u>	3.7
<u>Figure 3.9: ACC Suppliers Involved in Product Application (% Total) Marine Industry</u>	3.7
Market Shares	3.8
<u>Figure 3.10: 2008 ACC Market Shares - China Marine Industry</u>	3.8
<u>Figure 3.11: 2008 ACC Market Shares - China Marine Industry- Chart</u>	3.8
Growth and Projections	3.9
<u>Figure 3.12: 2008 – 2013 ACC Market Forecast (RMB BN) – Marine Industry</u>	3.9
Capacity Increase	3.10
<u>Figure 3.13: Total ACC Output and Capacity (Tons) – Marine Industry</u>	3.10
Product and Price Comparison	3.11
<u>Figure 3.14: Products of Main ACC Suppliers to the Marine Industry</u>	3.11
<u>Figure 3.15: Price/Lifespan Comparison Scatter Plot</u>	3.11
Opportunity Ratings	3.12
<u>Figure 3.16: ACC Opportunity Ratings, by Product Technology- Marine</u>	3.12
Regulatory Trends	3.12
II. Containers	3.13
Key Findings	3.13
<u>Figure 3.17: Revenues, Output, Growth and Pricing by Market Tier</u>	3.13
ACC Suppliers in this Market	3.14
<u>Figure 3.18: Industry Leaders ACC Sales (RMB MN) - Container Industry</u>	3.14
<u>Figure 3.19: Industry Leaders ACC Sales (RMB MN) - Container Industry- Chart</u>	3.14
Container ACC Market by Region	3.15
<u>Figure 3.20: ACC Sales by Region – Container Industry</u>	3.15
Container ACC Market by Product Technology	3.15
<u>Figure 3.21: ACC Sales by Product Technology – Container Industry</u>	3.15
Market Dynamics	3.16
<u>Figure 3.22: China Container Output 1997- 2008 (MN TEU)</u>	3.16
Decision Making	3.17
<u>Figure 3.23: Perceived Decision Makers – Container - Supplier Data</u>	3.17
Purchase Criteria	3.17
<u>Figure 3.24: Perceived Purchase Criteria- Container - Supplier Data</u>	3.17
ACC Sales and Application Channels- Container Industry	3.18

<u>Figure 3.25</u> : ACC Sales Channels – Container Industry	3.18
<u>Figure 3.26</u> : ACC Suppliers Involved in Product Application (% Total) Container Industry	3.18
Market Shares	3.19
<u>Figure 3.27</u> : 2008 ACC Market Shares - Container Industry	3.19
<u>Figure 3.28</u> : 2008 ACC Market Shares - China Container Industry- Chart	3.19
Growth and Projections	3.20
<u>Figure 3.29</u> : 2008 – 2013 ACC Market Forecast (RMB BN) – Container Industry	3.20
Planned Capacity Increase	3.21
<u>Figure 3.30</u> : Total ACC Output and Capacity (Tons) – Container Industry	3.21
Product & Price Comparison	3.22
<u>Figure 3.31</u> : Products of Main ACC Suppliers to the Container Industry	3.22
<u>Figure 3.32</u> : Price/Lifespan Comparison Scatter Plot	3.22
<u>Figure 3.33</u> : ACC Opportunity Ratings, by Product Technology - Container	3.23
Regulatory Trends	3.23
III. Petrochemical / Chemical	3.24
Key Findings	3.24
<u>Figure 3.34</u> : Revenues, Output, Growth and Pricing by Market Tier	3.24
ACC Suppliers in this Market- Petrochemical	3.25
<u>Figure 3.35</u> : Industry Leaders ACC Sales (RMB MN) – Petrochemical Industry	3.25
<u>Figure 3.36</u> : Industry Leaders ACC Sales (RMB MN) - Petrochemical Industry- Chart	3.25
ACC Suppliers in this Market- Chemical	3.26
<u>Figure 3.37</u> : Industry Leaders ACC Sales (RMB MN) - Chemical Industry	3.26
<u>Figure 3.38</u> : Industry Leaders ACC Sales (RMB MN) - Chemical Industry- Chart	3.26
Petrochemical and Chemical ACC Market by Region	3.27
<u>Figure 3.39</u> : ACC Sales by Region- Petrochemical Industry	3.27
<u>Figure 3.40</u> : ACC Sales by Region - Chemical Industry	3.27
Petrochemical and Chemical ACC Market by Product Technology	3.28
<u>Figure 3.41</u> : Sales by Product Technology- Petrochemical Industry	3.28
<u>Figure 3.42</u> : Sales by Product Technology- Chemical Industry	3.28
Customers	3.29
Market Dynamics	3.29
Decision Making	3.29
<u>Figure 3.43</u> : Perceived Decision Makers- Petrochemical /Chemical - Supplier Data	3.29

Third Party Involvement	3.30
<u>Figure 3.44: Reported 3rd Party Involvement in Purchase Decision (% Total)</u>	3.30
Purchase Criteria	3.30
<u>Figure 3.45: Perceived Purchase Criteria- Petrochemical/Chemical</u>	
– Supplier Data	3.30
ACC Sales & Application Channels- Petrochemical and Chemical	3.32
<u>Figure 3.46: ACC Sales Channels</u>	3.32
Petrochemical Industry	3.32
Chemical Industry	3.32
<u>Figure 3.47: ACC Suppliers Involved in Product Application (% Total)</u>	
Petrochemical and Chemical Industries	3.32
Market Shares ACC Market Shares- Petrochemical Applications	3.33
<u>Figure 3.48: 2008 ACC Market Shares - China Petrochemical Industry</u>	3.33
<u>Figure 3.49: 2008 ACC Market Shares - China Petrochemical Industry</u>	
- Chart	3.33
ACC Market Shares- Chemical Applications	3.34
<u>Figure 3.50: 2008 ACC Market Shares - China Chemical Industry</u>	3.34
<u>Figure 3.51: 2008 ACC Market Shares - China Chemical Industry- Chart</u>	3.34
Growth and Projections	3.35
Petrochemical Industry	3.35
<u>Figure 3.52: 2008 – 2013 ACC Market Forecast (RMB BN)</u>	
– Petrochemical	3.35
Chemical Industry	3.36
<u>Figure 3.53: 2008 – 2013 ACC Market Forecast (RMB BN) – Chemical</u>	3.36
Planned Capacity Increase	3.36
<u>Figure 3.54: Total ACC Output and Capacity (Tons)</u>	
- Petrochemical Industry	3.36
<u>Figure 3.55: Total ACC Output and Capacity (Tons) – Chemical Industry</u>	3.36
Product & Price Comparison	3.37
Petrochemical Industry	3.37
<u>Figure 3.56: Products of Main ACC Suppliers to the</u>	
Petrochemical Industry	3.37
<u>Figure 3.57: Price/Lifespan Comparison Scatter Plot</u>	3.37
Chemical	3.38
<u>Figure 3.58: Products of Main ACC Suppliers to the Chemical Industry</u>	3.38
<u>Figure 3.59: Price/Lifespan Comparison Scatter Plot</u>	3.38
<u>Figure 3.60: ACC Opportunity Ratings, by Product Technology</u>	
Petrochemical and Chemical	3.39
Regulatory Trends	3.39
IV. Transport	3.40

Key Findings	3.40
<u>Figure 3.61: Revenues, Output, Growth and Pricing by Market Tier</u>	3.40
ACC Suppliers in this Market	3.41
<u>Figure 3.62: Industry Leaders ACC Sales (RMB MN) - Transport Industry</u>	3.41
<u>Figure 3.63: Industry Leaders ACC Sales (RMB MN) - Transport Industry</u> - Chart	3.41
Transport ACC Market by Region	3.42
<u>Figure 3.64: ACC Sales by Region – Transport Industry</u>	3.42
Transport ACC Market by Product Technology	3.42
<u>Figure 3.65: ACC Sales by Product Technology – Transport Industry</u>	3.42
Customers	3.43
Market Dynamics	3.43
Decision Making	3.43
<u>Figure 3.66: Perceived Decision Makers- Transport ACC Industry</u> - Supplier Data	3.43
<u>Figure 3.67: Reported Third Party Involvement in</u> Purchase Decision (% Total)	3.44
Purchase Criteria	3.44
<u>Figure 3.68: Perceived Purchase Criteria</u> - Transport Industry - Supplier Data	3.44
<u>Figure 3.69: ACC Sales Channels – Transport Industry</u>	3.45
<u>Figure 3.70: ACC Suppliers Involved in Product Application (% Total)</u>	3.45
Market Shares	3.46
<u>Figure 3.71: 2008 ACC Market Shares - China Transport Industry</u>	3.46
<u>Figure 3.72: 2008 ACC Market Shares - Transport Industry - Chart</u>	3.46
Growth and Projections	3.47
<u>Figure 3.73: 2008 – 2013 ACC Market Forecast (RMB BN)</u> – Transport Industry	3.47
<u>Figure 3.74: Total ACC Output and Capacity (Tons) – Transport Industry</u>	3.47
Product & Price Comparison	3.48
<u>Figure 3.76: Price/Lifespan Comparison Scatter Plot</u>	3.48
Opportunity Ratings	3.49
<u>Figure 3.77: ACC Opportunity Ratings, by Product Technology - Transport</u>	3.49
V. Construction/Steel Structures	3.50
Key Findings	3.50
<u>Figure 3.78: Revenues, Output, Growth and Pricing by Market Tier</u>	3.50
ACC Suppliers in this Market	3.51
<u>Figure 3.79: Industry Leaders ACC Sales (RMB MN)</u> - Construction Industry	3.51
<u>Figure 3.80: Industry Leaders ACC Sales (RMB MN)</u>	

- Construction Industry	3.51
Construction ACC Market by Region	3.52
<u>Figure 3.81</u> : ACC Sales by Region – Construction Industry	3.52
Construction ACC Market by Product Technology	3.52
<u>Figure 3.82</u> : ACC Sales by Product Technology – Construction Industry	3.52
Customers	3.53
Market Dynamics	3.53
Decision Making	3.53
<u>Figure 3.83</u> : Perceived Decision Makers- Construction – Supplier Data	3.53
Purchase Criteria	3.54
<u>Figure 3.84</u> : Perceived Purchase Criteria- Construction - Supplier Data	3.54
ACC Sales & Application Channels- Construction Industry	3.55
<u>Figure 3.85</u> : ACC Sales Channels – Construction Industry	3.55
<u>Figure 3.86</u> : ACC Suppliers Involved in Product Application (% Total)	3.55
Market Shares	3.56
<u>Figure 3.87</u> : 2008 ACC Market Shares - China Construction Industry	3.56
<u>Figure 3.88</u> : 2008 ACC Market Shares - China Construction Industry	
- Chart	3.56
Growth and Projections	3.57
<u>Figure 3.89</u> : 2008 – 2013 ACC Market Forecast (RMB BN) - Construction	3.57
<u>Figure 3.90</u> : Total ACC Output and Capacity (Tons) - Construction Industry	3.57
<u>Figure 3.91</u> : Products of Main ACC Suppliers to the Construction Industry	3.58
Product & Price Comparison	3.58
<u>Figure 3.92</u> : Price/Lifespan Comparison Scatter Plot	3.58
Market Outlook	3.59
<u>Figure 3.93</u> : ACC Opportunity Ratings, by Product Technology	
- Construction	3.59
Regulatory Trends	3.59
VI. Power/Energy	3.60
Key Findings	3.60
<u>Figure 3.94</u> : Revenues, Output, Growth and Pricing by Market Tier	3.60
ACC Suppliers in This Market	3.61
<u>Figure 3.95</u> : Industry Leaders ACC Sales (RMB MN) - Power Industry	3.61
<u>Figure 3.96</u> : Industry Leaders ACC Sales (RMB MN)	
- Power Industry - Chart	3.61
Power ACC Market by Region	3.62
<u>Figure 3.97</u> : ACC Sales by Region – Power Industry	3.62
Power ACC Market by Product Technology	3.62
<u>Figure 3.98</u> : ACC Sales by Product Technology – Power Industry	3.62
Customers	3.63

Market Dynamics	3.63
Decision Making	3.63
<u>Figure 3.99</u> : Perceived Decision Makers - Power - Supplier Data	3.64
Purchase Criteria	3.64
<u>Figure 3.100</u> : Perceived Purchase Criteria- Power - Supplier Data	3.64
ACC Sales & Application Channels- Power Industry	3.65
<u>Figure 3.101</u> : ACC Sales Channels – Power Industry	3.65
<u>Figure 3.102</u> : ACC Suppliers Involved in Product Application (% Total)	3.65
Market Shares	3.66
<u>Figure 3.103</u> : 2008 ACC Market Shares - China Power Industry	3.66
<u>Figure 3.104</u> : 2008 ACC Market Shares - China Power Industry - Chart	3.66
Growth and Projections	3.67
<u>Figure 3.105</u> : 2008 – 2013 ACC Market Forecast (RMB BN) - Power/Energy	3.67
<u>Figure 3.106</u> : Total ACC Output and Capacity (Tons) - Power Industry	3.67
Product & Price Comparison	3.68
<u>Figure 3.107</u> : Products of Main ACC Suppliers to the Power Industry	3.68
<u>Figure 3.108</u> : Price/Lifespan Comparison Scatter Plot	3.68
Opportunity Ratings	3.69
<u>Figure 3.109</u> : ACC Opportunity Ratings, by Product Technology - Power Industry	3.69
Regulatory Trends	3.69
VII. Metallurgy	3.70
Key Findings	3.70
<u>Figure 3.110</u> : Revenues, Output, Growth and Pricing by Market Tier	3.70
ACC Suppliers in This Market	3.71
<u>Figure 3.111</u> : Industry Leaders ACC Sales (RMB MN) - Metallurgy Industry	3.71
<u>Figure 3.112</u> : Industry Leaders ACC Sales (RMB MN) - Metallurgy – Chart	3.71
Metallurgy ACC Market by Region	3.72
<u>Figure 3.113</u> : ACC Sales by Region – Metallurgy Industry	3.72
Metallurgy ACC Market by Product Technology	3.72
<u>Figure 3.114</u> : ACC Sales by Product Technology – Metallurgy Industry	3.72
Customers	3.73
Market Dynamics	3.73
Decision Making	3.73
Purchase Criteria	3.74
<u>Figure 3.115</u> : Perceived Purchase Criteria - Metallurgy - Supplier Data	3.74
ACC Sales & Application Channels	3.74
<u>Figure 3.116</u> : ACC Sales Channels – Metallurgy Industry	3.74
<u>Figure 3.117</u> : ACC Suppliers Involved in Product Application (% Total)	3.75

Market Shares	3.76
<u>Figure 3.118</u> : 2008 ACC Market Shares - China Metallurgy Industry	3.76
<u>Figure 3.119</u> : 2008 ACC Market Shares - China Metallurgy Industry - Chart	3.76
Growth and Projections	3.77
<u>Figure 3.120</u> : 2008 - 2013 ACC Market Forecast (RMB BN) - Metallurgy	3.77
<u>Figure 3.121</u> : Total ACC Output and Capacity (Tons) – Metallurgy Industry	3.77
Product & Price Comparison	3.78
<u>Figure 3.122</u> : Products of Main Suppliers in the Metallurgy ACC Industry	3.78
<u>Figure 3.123</u> : Price/Lifespan Comparison Scatter Plot	3.78
Opportunity Ratings	3.79
<u>Figure 3.124</u> : ACC Opportunity Ratings, by Product Technology – Metallurgy	3.79
Regulatory Trends	3.79
VIII. Hardware Appliances	3.80
Key Findings	3.80
<u>Figure 3.125</u> : Revenues, Output, Growth and Pricing by Market Tier	3.80
ACC Suppliers in this Market	3.81
<u>Figure 3.126</u> : Industry Leaders ACC Sales (RMB MN) - Hardware Appliances Industry	3.81
<u>Figure 3.127</u> : Industry Leaders ACC Sales (RMB MN) - Hardw. App.- Chart	3.81
Hardware Appliances ACC Market by Region	3.82
Hardware Appliances ACC Market by Product Technology	3.82
<u>Figure 3.129</u> : ACC Sales by Product Technology - Hardware App. Industry	3.82
Customers	3.83
Market Dynamics	3.83
Decision Making	3.83
<u>Figure 3.130</u> : Perceived Decision Makers- Hardware Appliances - Supplier Data	3.83
Purchase Criteria	3.84
<u>Figure 3.131</u> : Perceived Purchase Criteria- Hardware Appliances - Supplier Data	3.84
ACC Sales & Application Channels	3.84
<u>Figure 3.132</u> : ACC Sales Channels – Hardware Appliances Industry	3.84
Market Shares	3.85
<u>Figure 3.133</u> : 2008 ACC Market Shares- Hardware Appliances Industry	3.85
<u>Figure 3.134</u> : 2008 ACC Market Shares - Hardware Appliances Industry- Chart	3.85
Growth and Projections	3.86
<u>Figure 3.135</u> : 2008 - 2013 ACC Market Forecast (RMB BN) - Metallurgy	3.86

<u>Figure 3.136: Total ACC Output and Capacity (Tons)</u>	
– Hardware Appliances	3.86
Product & Price Comparison	3.87
<u>Figure 3.137: Products of Main Suppliers in the Hardware Appliances ACC Industry</u>	3.87
<u>Figure 3.138: Price/Lifespan Comparison Scatter Plot</u>	3.88
Opportunity Ratings	3.88
<u>Figure 3.139: Opportunity Ratings, by Product - Hardware Appliances Industry</u>	3.88
Regulatory Trends	3.89
Appendix I: Supplier Profiles	AI.1
3M(3M 中国有限公司)	AI.2
Akzonobel(阿克苏诺贝尔)	AI.4
Beijing Bihaizhou (北京碧海舟防腐涂料有限公司)	AI.6
Beijing Zhisheng Weihua(北京志盛威华公司)	AI.8
Beijing Caamsc Corrosin Control Technique(北京科美新防腐技术有限公司)	AI.10
Chugoku(中涂化工(上海)有限公司)	AI.12
COSCO Kansai Paint(中远关西涂料化工有限公司)	AI.14
Dalian Yuxiang(大连裕祥科技有限公司)	AI.16
Dongying Lantian Plastic Cement(东营蓝天塑胶有限公司)	AI.18
DuPont(杜邦中国集团有限公司)	AI.20
Euronavy (优龙(北京)重防腐涂料有限公司)	AI.22
Guangdong Yuegang Dadi(广东粤港大地制漆有限公司)	AI.24
Guangzhou Bali(雅特霸力化工科技有限公司)	AI.26
Guangzhou Jienai(广州捷耐制漆有限公司)	AI.28
Guoke Jingbiao New Material(北京国科京彪新材料有限公司)	AI.30
Hempel(海虹老人涂料(上海)有限公司)	AI.32
Hunan Xiangjiang(湖南湘江涂料集团有限公司)	AI.34
Jiangsu Lanling(江苏兰陵)	AI.36
Jiangyin Huali Anti-corrosion Paint(江阴华理防腐涂料有限公司)	AI.38
Jinan Kexing(济南科兴塑料开发有限公司)	AI.40
Jinan Zhonghuafang (济南中化纺科技开发有限公司)	AI.42
Jotun(佐敦(广州))	AI.44
KCC Chemical Kunshan(金刚化工昆山有限公司)	AI.46
KLB-AC(克虏伯(德国)节能环保材料有限公司)	AI.48
Langfang Donghua Anticorrosion Engineering (廊坊东化防腐工程有限公司)	AI.50
Langfang Xunda(廊坊迅达科技发展有限公司)	AI.52
Linhai Yonggu(临海市永固防腐化工厂)	AI.54
Maoming Jinlong Chemical(茂名市金龙化工防腐涂料厂)	AI.56

Ningbo Dongsheng(宁波东升科技发展有限公司)	AI.58
Ningbo Feilun(宁波飞轮造漆有限责任公司)	AI.60
PPG Coatings (Tianjin) (PPG 涂料 (天津) 有限公司)	AI.62
Qindao Haijian(青岛海建化学有限公司)	AI.64
Shandong Lehua(山东乐化漆业股份有限公司)	AI.66
Shanghai Aolan (上海奥兰助剂涂料有限公司)	AI.68
Shanghai IP(上海国际油漆有限公司)	AI.70
Shanghai Kailin(上海开林造漆厂)	AI.72
Shenyang Gelin Coating (沈阳格林涂料厂)	AI.74
Sherwin Williams(美国宣威)	AI.76
Shijiazhuang First Coating (石家庄弗斯特涂料有限公司)	AI.78
Sichuan Xianghe(四川祥和涂料有限公司)	AI.80
Sichuan Xingyuan Special Coating(四川星源特种涂料有限公司)	AI.82
Tianjin Huayi (天津市华谊特种油漆厂)	AI.84
Valspar(美国威士伯公司)	AI.86
Yangzhou Maydos Jin-ling Special Paint(扬州美涂士金陵特种涂料有限公司)	AI.88
Zhangjiagang Yongtai Anti-corrosion Paint(张家港市永泰防腐涂料有限公司)	AI.90

Appendix II: Demand/Supply Demographics **AI.1**

I. Customers **AI.2**

Industry Segments	AI.2
<u>Figure All.1: End Users in Each Industry (2008)</u>	AI.2
Marine Industry	AI.3
Overview	AI.3
<u>Figure All.2: Shipyards in China, by Company Size and Ownership (2008 data)</u>	AI.3
<u>Figure All.3: China Ship Manufacturers Locations, by Region- 2008</u>	AI.3
Estimate of Demand- Methodology	AI.4
<u>Figure All.4: Estimate of ACC Demand - China Marine Industry</u>	AI.4
Regulatory Info	AI.5
<u>Figure All.5: Marine ACC Standards issued in 2008 in China</u>	AI.5
Container Industry	AI.6
Overview	AI.6
<u>Figure All.6: Production of Containers in China by Region</u>	AI.6
Estimate of Demand – Methodology	AI.7
<u>Figure All.7: Estimate of ACC Demand - China Container Industry</u>	AI.7
Regulatory Info	AI.8
<u>Figure All.8: Container ACC Standards in China</u>	AI.8
Petrochemical / Chemical Industries	AI.9
Overview	AI.9

<u>Figure All.9:</u> Petrochemical Companies in China, by Size	All.9
<u>Figure All.10:</u> Repartition of Petrochemical ACC Customers in China	All.9
<u>Figure All.11:</u> Customers of Chemical ACC in China, by Region	All.10
Estimate of Demand – Methodology	All.10
Petrochemical	All.10
<u>Figure All.12:</u> Estimate of ACC Demand - China Petrochemical Industry	All.11
Chemical	All.11
<u>Figure All.13:</u> Estimate of ACC Demand – China Chemical Industry	All.11
Regulatory Info	All.12
<u>Figure All.14:</u> Petrochemical/Chemical ACC Standards in China	All.12
Transport Industry	All.13
Overview	All.13
<u>Figure All.15:</u> ACC End-Users – China Transport Industry	All.13
Estimate of Demand – Methodology	All.13
<u>Figure All.16:</u> Estimate of ACC Demand - Total Transport ACC Demand	All.14
Regulatory Info	All.14
<u>Figure All.17:</u> Transport ACC Standards issued in 2008 in China	All.14
Construction Industry	All.15
Overview	All.15
<u>Figure All.18:</u> Construction Companies in China, by Region	All.15
<u>Figure All.19:</u> Construction Companies in China, by Ownership (2008)	All.15
Estimate of Demand – Methodology	All.16
<u>Figure All.20:</u> Estimate of ACC Demand – China Construction Industry	All.16
Regulatory Info	All.16
<u>Figure All.21:</u> Construction ACC Standards in China	All.17
Power/Energy Industry	All.18
Overview	All.18
<u>Figure All.22:</u> Overview of Power ACC Customers	All.18
Estimate of Demand – Methodology	All.18
<u>Figure All.23:</u> Estimate of ACC Demand - China Energy Industry	All.19
Regulatory Info	All.19
<u>Figure All.24:</u> Power ACC Standards issued in 2008 in China	All.19
Metallurgy Industry	All.20
Overview	All.20
<u>Figure All.25:</u> Overview of Metallurgy ACC Customers	All.20
Estimate of Demand – Methodology	All.20
<u>Figure All.26:</u> Estimate of ACC Demand - China Metallurgy Industry	All.20
Regulatory Info	All.21
<u>Figure All.27:</u> Metallurgy ACC Standards issued in 2008 in China	All.21
Hardware Appliances Industry	All.22
Overview	All.22

<u>Figure All.28</u> : Producers of Hardware Appliances in China	All.22
Estimate of Demand – Methodology	All.23
<u>Figure All.29</u> : Estimate of ACC Demand - China Hardware Appl. Industry	All.23
Regulatory Info	All.24
<u>Figure All.30</u> : Hardware Appliances ACC Standards in China	All.24
II. Suppliers	All.25
Coatings Market Overview	All.25
Overview by Region	All.25
<u>Figure All.31</u> : ACC Supplier Distribution by Area (2008)	All.25
<u>Figure All.32</u> : Coating Output by Areas and Province in China (1,000 T)	All.26
China ACC Suppliers	All.27
Supplier Involvement, by Product Focus	All.27
<u>Figure All.33</u> : Suppliers Product Involvement, by Core Tech. and Supplier Size	All.27
Supplier Involvement, by Industry Focus	All.27
<u>Figure All.34</u> : Involvement of Suppliers, by Industry Segment	All.27
Operational Structure of ACC Suppliers in China	All.28
Factory Location	All.28
<u>Figure All.35</u> : Factories in China, by Area.	All.28
End of Chapter	All.28
List of Contacts	LoC