



## Koppers Holdings Inc. Reports Third Quarter 2018 Results

November 8, 2018

**Q3 2018 Diluted EPS of \$0.35 vs. Prior Year of \$0.91**  
**Adjusted Q3 2018 EPS of \$0.73 vs. Prior Year of \$1.43**  
**Revises 2018 Guidance to \$220 Million Adjusted EBITDA and \$3.30 to \$3.40 Adjusted EPS**  
**Announces Profitability Improvement Actions to Realize \$25 Million to \$40 Million of Benefits**

PITTSBURGH, Nov. 8, 2018 /PRNewswire/ -- Koppers Holdings Inc. (NYSE: KOP), an integrated global provider of treated wood products, wood treatment chemicals and carbon compounds, today reported net income attributable to Koppers for the third quarter of \$7.6 million, or \$0.35 per diluted share compared to net income of \$19.8 million, or \$0.91 per diluted share in the prior year quarter.



Adjusted net income and adjusted earnings per share (EPS) were \$15.6 million and \$0.73 per share for the third quarter of 2018 compared to \$31.5 million and \$1.43 per share in the prior year quarter, respectively.

Adjustments to pre-tax income totaled \$9.8 million for the third quarter of 2018 and \$13.8 million for the prior year quarter. The current year quarter primarily reflected restructuring expenses, LIFO expenses, costs related to mark-to-market commodity hedging and a loss on the sale of a business. The prior year quarter consisted of pension settlement charges and restructuring expenses, partially offset by a benefit associated with mark-to-market commodity hedging.

Consolidated sales were \$442.7 million for the third quarter of 2018, an increase of \$57.9 million, or 15.0 percent, from sales of \$384.8 million in the prior year quarter. Excluding an unfavorable impact from foreign currency translation of \$5.0 million, sales increased by \$62.9 million, or 16.3 percent, from the prior year quarter. The Railroad and Utility Products and Services (RUPS) business reported increased sales, which were due to acquisitions in the current year as well as increased volumes in the commercial crosstie market, partially offset by lower Class I treating volumes due to lack of dry crosstie inventory. The Carbon Materials and Chemicals (CMC) business reported higher sales prices for carbon pitch in Europe, North America and Australia, partially offset by lower volumes of soft pitch in China and phthalic anhydride in North America. The Performance Chemicals (PC) business recorded slightly lower sales compared with prior year, reflecting the continued trend of customers reducing or delaying wood-treating activities due to volatility in lumber prices.

While RUPS profitability benefited from the contribution from recent acquisitions, lack of dry crosstie inventory prevented the legacy railroad business from benefiting further as Class I demand has begun to improve from trough levels. CMC reported lower profitability compared to prior year primarily due to a production curtailment at a major customer in China. PC reported a margin decline due to higher raw material prices, transportation costs and short-term supply disruptions driving costs higher.

Commenting on the quarter, President and CEO Leroy Ball said, "Our results would have been much different if not for our main customer in China curtailing production during the third quarter. In our legacy RUPS segment, demand metrics continued to improve and matched our prior year numbers for the first time since the second quarter of 2016, which validates that we are turning the corner as expected. The fundamentals in our PC business remain solid, but increased cost and limited availability of certain raw materials were issues that have had a ripple effect throughout our supply chain."

### Third-Quarter Financial Performance

- Sales for RUPS of \$185.0 million increased by \$53.3 million, or 40.5 percent, compared to sales of \$131.7 million in the prior year quarter. Earlier in the year, Koppers acquired M.A. Energy Resources as well as the Industrial Division of Cox Industries, now renamed as Koppers Utility and Industrial Products (UIP). The sales increase was due to acquisitions in the current year as well as increased volumes in the commercial crosstie market, partially offset by lower Class I treating volumes. Operating profit for the third quarter was \$5.8 million, or 3.1 percent, compared with an operating profit of \$9.5 million, or 7.2 percent, in the prior year quarter. Adjusted EBITDA for the third quarter was \$12.3 million, or 6.6 percent, compared with \$11.9 million, or 9.0 percent, in the prior year quarter. The increase in adjusted EBITDA was due to the contribution from recent acquisitions, partially offset by lower treating volumes due to the lack of dry crosstie inventory.
- Sales for PC of \$108.2 million decreased by \$1.5 million, or 1.4 percent, compared to sales of \$109.7 million in the prior

year quarter. Customers are continuing to reduce or delay wood-treating activities as volatility in lumber prices during the quarter hampered the purchases of treated wood by independent dealers due to credit constraints. Operating profit was \$11.0 million, or 10.2 percent, for the third quarter, compared with \$18.4 million, or 16.8 percent, in the prior year quarter. Adjusted EBITDA was \$16.6 million, or 15.3 percent, for the third quarter, compared with \$22.2 million, or 20.2 percent, in the prior year quarter. The lower profitability was driven by higher raw material prices, transportation costs and higher costs from short-term supply disruptions.

- Sales for CMC of \$149.5 million increased by \$6.1 million, or 4.3 percent, compared to sales of \$143.4 million in the prior year quarter. Excluding an unfavorable impact from foreign currency translation of \$3.3 million, sales increased by \$9.4 million, or 6.6 percent, from the prior year quarter. The sales increase was due to higher sales prices for carbon pitch in Europe, North America and Australia, partially offset by lower volumes of soft pitch in China and phthalic anhydride in North America. Operating profit was \$14.9 million, or 10.0 percent, in the third quarter, compared with \$16.3 million, or 11.4 percent, in the prior year quarter. Adjusted EBITDA was \$24.9 million, or 16.7 percent, in the third quarter, compared with \$26.1 million, or 18.2 percent, in the prior year quarter. The unfavorable margin performance was due to a major customer's production curtailment in China.
- Operating profit was \$31.2 million, or 7.0 percent, compared with \$35.0 million, or 9.1 percent, in the prior year quarter. Adjusted EBITDA was \$53.3 million, or 12.0 percent, compared with \$60.5 million, or 15.7 percent, in the prior year quarter. Operating profit margin and adjusted EBITDA margin are calculated as a percentage of GAAP sales.
- Net income attributable to Koppers in the third quarter was \$7.6 million compared with net income of \$19.8 million in the prior year quarter. Adjusted net income was \$15.6 million, compared with \$31.5 million in the prior year quarter.
- In the third quarter of 2018, items excluded from adjusted EBITDA consisted of \$8.7 million of pre-tax charges, while adjusted net income and adjusted EPS for the quarter excluded \$9.8 million of pre-tax charges, both of which primarily consisted of restructuring expenses, LIFO expenses, costs related to mark-to-market commodity hedging and a loss on the sale of a business.
- In the third quarter of 2018, the income tax provision was \$8.6 million, or 55.5 percent of income before taxes, compared with \$4.8 million, or 19.4 percent of income before taxes, in the prior year quarter. The income tax provision for the current year quarter was unfavorably impacted by new tax elements of the 2017 Tax Cut and Jobs Act and the cumulative catch-up impact from the change in estimated tax rate from the prior quarter, partially offset by the reversal of a valuation allowance on foreign net operating losses. The impact in the third quarter compared with prior year was approximately \$0.23 on diluted EPS, and approximately \$0.22 on adjusted diluted EPS.
- Diluted EPS was \$0.35, compared with \$0.91 per share in the prior year quarter. Adjusted EPS for the quarter was \$0.73, compared with \$1.43 for the prior year period.
- Capital expenditures for the nine months ending September 30, 2018, were \$81.4 million compared with \$48.6 million for the prior year period. The current year amount consists of spending on the new naphthalene unit in Stickney, Illinois, capacity expansions at PC production facilities in the U.S. and general spending to maintain the safety and efficiency of global operations.
- Total debt was at \$1.045 billion and, net of cash and cash equivalents, net debt was \$982.4 million at September 30, 2018, compared with total debt of \$677.0 million and net debt of \$616.7 million at December 31, 2017. Compared to year-end, the net debt at the end of the third quarter was higher by \$365.7 million, primarily due to acquisitions and working capital increases. At September 30, 2018, the company's net leverage ratio was 4.5 and on a pro-forma basis, including acquisitions, was 4.3.

## 2018 Outlook

Including current year acquisitions, Koppers expects that 2018 sales will now be approximately \$1.7 billion, compared with \$1.8 billion previously. On an adjusted basis, the company now expects EBITDA of approximately \$220 million for 2018, compared with \$240 million previously. Accordingly, the adjusted EPS for 2018 is forecasted to be in the range of \$3.30 to \$3.40, compared with \$4.05 and \$4.25 previously.

The company now estimates capital expenditures in the range of \$85 million to \$90 million, due to pulling forward spending on several projects that were originally scheduled to occur in 2019. Therefore, capital expenditures in 2019 will be revised to be less than \$50 million to account for the accelerated spending in 2018. The pro-forma net debt to adjusted EBITDA ratio is now projected to be approximately 4.2x by December 31, 2018.

Commenting on the forecast, Mr. Ball said, "Due to the idling of our major customer's facility in China during the third quarter and potentially for the fourth quarter, we are lowering our expectations for 2018. As an upside, the eventual resolution of commercial issues in China represent significant benefits that aren't presently being accounted for in our earnings or cash forecast. Even so, we continue to anticipate that 2018 results will represent our fourth straight year of growth in adjusted EBITDA. Moreover, as part of recently refreshing our long-term strategic plan, we have identified actionable organic opportunities to improve profitability by \$25 million to \$40 million over the next five years in the categories of network optimization, commercial development, raw materials, and other cost savings."

## 2019 Outlook

Based on the prevailing indicators, Koppers expects to deliver its fifth consecutive year of adjusted EBITDA growth in 2019. Additionally, it is anticipated that there will be a meaningful shift in the mix of earnings to be more consistent with the company's stated strategy of focusing on wood-based technologies. In addition to at least \$10 million of strategic initiative benefits, the overall results should also improve from the ongoing cyclical recovery in the Railroad and Utility Products and Services business, several new commercial opportunities in the Performance Chemicals business, an entire year of contribution from acquisitions, and projected savings of approximately \$15 million related to the completed naphthalene

unit at the Stickney facility, which will more than offset the headwinds associated with lower expected earnings out of China and higher raw material costs.

### **Investor Conference Call and Webcast**

Koppers management will conduct a conference call this morning, beginning at 11:00 a.m. Eastern Time to discuss the company's performance. Presentation materials will be available at least 15 minutes before the call on [www.koppers.com](http://www.koppers.com) in the Investor Relations section of the company's website.

Interested parties may access the live audio broadcast by dialing 833-366-1128 in the United States/Canada, or 412-902-6774 for international, Conference ID number 10125338. Participants are requested to access the call at least five minutes before the scheduled start time to complete a brief registration.

The conference call will be broadcast live online at: <https://services.choruscall.com/links/koppers181108.html>. (Due to the length of this URL, it may be necessary to copy and paste this hyperlink into your internet browser's URL address field.)

An audio replay will be available approximately two hours after the completion of the call at 877-344-7529 for U.S. toll free, 855-669-9658 for Canada toll free, or 412-317-0088 for international, Conference ID number 10125338. The recording will be available for replay through December 7, 2018.

### **About Koppers**

Koppers, with corporate headquarters in Pittsburgh, Pennsylvania, is an integrated global provider of treated wood products, wood treatment chemicals and carbon compounds. Our products and services are used in a variety of niche applications in a diverse range of end-markets, including the railroad, specialty chemical, utility, residential lumber, agriculture, aluminum, steel, rubber, and construction industries. Including our joint ventures, we serve our customers through a comprehensive global manufacturing and distribution network, with facilities located in North America, South America, Australasia, China and Europe. The stock of Koppers Holdings Inc. is publicly traded on the New York Stock Exchange under the symbol "KOP." For more information, visit us on the Web: [www.koppers.com](http://www.koppers.com). Questions concerning investor relations should be directed to Michael J. Zugay at 412 227 2231 or Quynh McGuire at 412 227 2049.

### **Non-GAAP Financial Measures**

This press release contains certain non-GAAP financial measures. Koppers believes that adjusted EBITDA, adjusted EBITDA margin, adjusted net income, adjusted earnings per share, net debt and net leverage ratio provide information useful to investors in understanding the underlying operational performance of the company, its business and performance trends, and facilitate comparisons between periods and with other corporations in similar industries. The exclusion of certain items permits evaluation and a comparison of results for ongoing business operations, and it is on this basis that Koppers management internally assesses the company's performance. In addition, the Board of Directors and executive management team use adjusted EBITDA as a performance measure under the company's annual incentive plans.

Although Koppers believes that these non-GAAP financial measures enhance investors' understanding of its business and performance, these non-GAAP financial measures should not be considered an alternative to GAAP basis financial measures and should be read in conjunction with the relevant GAAP financial measure. Other companies in a similar industry may define or calculate these measures differently than the company, limiting their usefulness as comparative measures. Because of these limitations, these non-GAAP financial measures should not be considered in isolation or as substitutes for performance measures calculated in accordance with GAAP.

See the attached tables for the following reconciliations of non-GAAP financial measures included in this press release: Unaudited Reconciliation of Operating Profit to EBITDA and Adjusted EBITDA; Unaudited Reconciliation of Net Income to EBITDA and Adjusted EBITDA; Unaudited Reconciliation of Net Income Attributable to Koppers and Adjusted Net Income; Unaudited Reconciliation of Diluted Earnings Per Share and Adjusted Earnings Per Share; Unaudited Reconciliation of Total Debt to Net Debt and Net Leverage Ratio; and Unaudited Reconciliation of Net Income to EBITDA and Adjusted EBITDA on a Latest Twelve Month Basis.

For the company's guidance, adjusted EBITDA, adjusted EBITDA margin and adjusted EPS excludes restructuring, impairment, non-cash LIFO charges, acquisition-related costs, and non-cash mark-to-market commodity hedging. The forecasted amounts for these items cannot be reasonably estimated due to their nature, but may be significant. For that reason, the company is unable to provide GAAP earnings estimates at this time.

### **Safe Harbor Statement**

Certain statements in this press release are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 and may include, but are not limited to, statements about sales levels, acquisitions, restructuring, declines in the value of Koppers assets and the effect of any resulting impairment charges, profitability and anticipated expenses and cash outflows. All forward-looking statements involve risks and uncertainties. All statements contained herein that are not clearly historical in nature are forward-looking, and words such as "outlook," "guidance," "forecast," "believe," "anticipate," "expect," "estimate," "may," "will," "should," "continue," "plans," "potential," "intends," "likely," or other similar words or phrases are generally intended to identify forward-looking statements. Any forward-looking statement contained herein, in other press releases, written statements or other documents filed with the Securities and Exchange Commission, or in Koppers communications and discussions with investors and analysts in the normal course of business through meetings, phone calls and conference calls, regarding expectations with respect to sales, earnings, cash flows, operating efficiencies, restructurings, the benefits of acquisitions, divestitures, joint ventures or other matters as well as financings and debt reduction, are subject to known and unknown risks, uncertainties and contingencies. Many of these risks, uncertainties and contingencies are beyond our control, and may cause actual results, performance or achievements to differ materially from anticipated results, performance or achievements. Factors that might affect such forward-looking statements include, among other things, the impact of changes in commodity prices, such as oil and copper, on product margins; general economic and business conditions; potential difficulties in protecting our intellectual property; the ratings on our debt and our ability to repay or refinance our outstanding indebtedness as it matures; our ability to operate within the limitations of our debt covenants; potential impairment of our goodwill and/or long-lived assets; demand for Koppers goods and services; competitive conditions; interest rate and foreign currency rate fluctuations; availability and costs of key raw materials; unfavorable resolution of claims against us, as well as those discussed more fully elsewhere in this release and in documents filed with the Securities and Exchange Commission by Koppers, particularly our latest annual report on Form 10-K and quarterly report on Form 10-Q. Any forward-looking statements in this release speak only as of the date of this release, and we undertake no obligation to update any forward-looking statement to reflect events or circumstances after that

date or to reflect the occurrence of unanticipated events.

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**Koppers Holdings Inc.**  
**Unaudited Consolidated Statement of Operations**  
*(Dollars in millions, except per share amounts)*

	<i>Three Months Ended September 30, Nine Months Ended September 30,</i>			
	<i>2018</i>	<i>2017</i>	<i>2018</i>	<i>2017</i>
Net sales	\$ 442.7	\$ 384.8	\$ 1,284.8	\$ 1,109.4
Cost of sales (excluding items below)	359.7	293.5	1,023.9	863.0
Depreciation and amortization	13.0	12.1	38.5	35.0
Impairment and restructuring charges	0.9	2.2	3.8	5.8
Loss on pension settlement	0.0	8.8	0.0	8.8
Selling, general and administrative expenses	37.9	33.2	121.8	95.6
Operating profit	31.2	35.0	96.8	101.2
Other (loss) income	(0.6)	0.3	(1.1)	2.0
Interest expense	15.1	10.5	40.1	31.9
Loss on extinguishment of debt	0.0	0.0	0.0	13.3
Income before income taxes	15.5	24.8	55.6	58.0
Income tax provision	8.6	4.8	24.4	12.4
Income from continuing operations	6.9	20.0	31.2	45.6
Income (loss) from discontinued operations, net of tax (expense) benefit of \$(0.0), \$0.0, \$(0.3) and \$0.4	0.0	(0.1)	0.4	(1.3)
Net income	6.9	19.9	31.6	44.3
Net (loss) income attributable to noncontrolling interests	(0.7)	0.1	5.6	0.4
Net income attributable to Koppers	\$ 7.6	\$ 19.8	\$ 26.0	\$ 43.9
Earnings (loss) per common share attributable to Koppers common shareholders:				
Basic -				
Continuing operations	\$ 0.36	\$ 0.96	\$ 1.22	\$ 2.17
Discontinued operations	0.00	0.00	0.02	(0.06)
Earnings per basic common share	\$ 0.36	\$ 0.96	\$ 1.24	\$ 2.11
Diluted -				
Continuing operations	\$ 0.35	\$ 0.91	\$ 1.17	\$ 2.06
Discontinued operations	0.00	0.00	0.02	(0.06)
Earnings per diluted common share	\$ 0.35	\$ 0.91	\$ 1.19	\$ 2.00
Comprehensive (loss) income	\$ (2.0)	\$ 36.8	\$ (6.5)	\$ 73.7
Comprehensive (loss) income attributable to noncontrolling interests	(1.1)	0.2	4.7	0.6
Comprehensive (loss) income attributable to Koppers	\$ (0.9)	\$ 36.6	\$ (11.2)	\$ 73.1
Weighted average shares outstanding (in thousands):				
Basic	20,946	20,746	20,992	20,750
Diluted	21,700	21,911	21,892	21,927

**Koppers Holdings Inc.**  
**Unaudited Consolidated Balance Sheet**  
*(Dollars in millions, except per share amounts)*

	<i>September 30, December 31,</i>	
	<i>2018</i>	<i>2017</i>
Assets		
Cash and cash equivalents	\$ 62.5	\$ 60.3
Accounts receivable, net of allowance of \$2.2 and \$2.5	220.8	159.2
Income tax receivable	1.5	1.7
Inventories, net	289.3	236.9
Other current assets	31.5	48.6

Total current assets	605.6	506.7
Property, plant and equipment, net	398.4	328.0
Goodwill	296.5	188.2
Intangible assets, net	193.5	129.6
Deferred tax assets	18.4	18.4
Other assets	23.2	29.3
<b>Total assets</b>	<b>\$ 1,535.6</b>	<b>\$ 1,200.2</b>
Liabilities		
Accounts payable	\$ 166.2	\$ 141.9
Accrued liabilities	101.7	127.9
Current maturities of long-term debt	15.1	11.4
<b>Total current liabilities</b>	<b>283.0</b>	<b>281.2</b>
Long-term debt	1,029.8	665.6
Accrued postretirement benefits	46.6	46.3
Deferred tax liabilities	6.8	7.3
Other long-term liabilities	90.0	94.0
<b>Total liabilities</b>	<b>1,456.2</b>	<b>1,094.4</b>
Commitments and contingent liabilities (Note 18)		
Equity		
Senior Convertible Preferred Stock, \$0.01 par value per share; 10,000,000 shares authorized; no shares issued	0.0	0.0
Common Stock, \$0.01 par value per share; 80,000,000 shares authorized; 22,979,575 and 22,384,476 shares issued	0.2	0.2
Additional paid-in capital	202.3	190.6
Retained earnings	29.8	7.4
Accumulated other comprehensive loss	(73.7)	(40.1)
Treasury stock, at cost, 2,472,299 and 1,606,028	(89.8)	(58.2)
<b>Total Koppers shareholders' equity</b>	<b>68.8</b>	<b>99.9</b>
Noncontrolling interests	10.6	5.9
<b>Total equity</b>	<b>79.4</b>	<b>105.8</b>
<b>Total liabilities and equity</b>	<b>\$ 1,535.6</b>	<b>\$ 1,200.2</b>

**Koppers Holdings Inc.**  
**Unaudited Consolidated Statement of Cash Flows**  
*(Dollars in millions)*

	<u>Nine Months Ended September 30,</u>	
	2018	2017
Cash provided by (used in) operating activities:		
Net income	\$ 31.6	\$ 44.3
Adjustments to reconcile net cash provided by (used in) operating activities:		
Depreciation and amortization	38.5	35.0
Loss on extinguishment of debt	0.0	13.3
Loss (gain) on disposal of assets and investment	2.2	(1.4)
Gain on insurance proceeds	(1.5)	0.0
Deferred income taxes	5.0	0.8
Change in other liabilities	(6.2)	(18.6)
Non-cash interest expense	1.8	1.5
Stock-based compensation	9.3	7.8
Loss on pension settlement	0.0	8.8
Other - net	6.5	2.0
Changes in working capital:		
Accounts receivable	(36.3)	(37.6)
Inventories	(20.3)	10.5
Accounts payable	17.7	(14.4)
Accrued liabilities	(38.6)	(1.1)
Other working capital	(1.7)	(2.4)
<b>Net cash provided by operating activities</b>	<b>8.0</b>	<b>48.5</b>
Cash (used in) provided by investing activities:		
Capital expenditures	(81.4)	(48.6)
Acquisitions, net of cash acquired	(264.0)	0.0
Insurance proceeds received	1.5	0.0
Repayments received on loan	0.0	9.5
Net cash provided by divestitures and asset sales	2.3	1.1
<b>Net cash used in investing activities</b>	<b>(341.6)</b>	<b>(38.0)</b>
Cash provided by (used in) financing activities:		

Net increase in revolving credit facility borrowings	282.8	74.1
Borrowings of long-term debt	100.0	500.0
Repayments of long-term debt	(12.9)	(541.4)
Issuances of Common Stock	2.5	1.9
Repurchases of Common Stock	(31.7)	(5.1)
Payment of debt issuance costs	(2.9)	(11.0)
Net cash provided by financing activities	337.8	18.5
Effect of exchange rate changes on cash	(2.0)	0.4
Net increase in cash and cash equivalents	2.2	29.4
Cash and cash equivalents at beginning of period	60.3	20.8
Cash and cash equivalents at end of period	\$ 62.5	\$ 50.2

### Unaudited Segment Information

The following tables set forth certain sales and operating data, net of all intersegment transactions, for the company's businesses for the periods indicated.

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2018	2017	2018	2017
<i>(Dollars in millions)</i>				
Net sales:				
Railroad and Utility Products and Services	\$ 185.0	\$ 131.7	\$ 470.6	\$ 403.1
Performance Chemicals	108.2	109.7	320.7	318.2
Carbon Materials and Chemicals	149.5	143.4	493.5	388.1
Total	\$ 442.7	\$ 384.8	\$ 1,284.8	\$ 1,109.4
Operating profit (loss):				
Railroad and Utility Products and Services	\$ 5.8	\$ 9.5	\$ 5.9	\$ 30.1
Performance Chemicals	11.0	18.4	28.2	56.6
Carbon Materials and Chemicals	14.9	16.3	64.6	24.9
Corporate Unallocated	(0.5)	(9.2)	(1.9)	(10.4)
Total	\$ 31.2	\$ 35.0	\$ 96.8	\$ 101.2
Operating profit margin:				
Railroad and Utility Products and Services	3.1%	7.2%	1.3%	7.5%
Performance Chemicals	10.2%	16.8%	8.8%	17.8%
Carbon Materials and Chemicals	10.0%	11.4%	13.1%	6.4%
Total	7.0%	9.1%	7.5%	9.1%
Depreciation and amortization:				
Railroad and Utility Products and Services	\$ 4.9	\$ 2.9	\$ 12.8	\$ 8.8
Performance Chemicals	4.4	4.4	13.3	13.3
Carbon Materials and Chemicals	3.7	4.8	12.4	12.9
Total	\$ 13.0	\$ 12.1	\$ 38.5	\$ 35.0
Adjusted EBITDA <sup>(1)</sup> :				
Railroad and Utility Products and Services	\$ 12.3	\$ 11.9	\$ 31.5	\$ 37.4
Performance Chemicals	16.6	22.2	48.3	69.4
Carbon Materials and Chemicals	24.9	26.1	95.2	51.5
Corporate Unallocated	(0.5)	0.3	(0.3)	(0.2)
Total	\$ 53.3	\$ 60.5	\$ 174.7	\$ 158.1
Adjusted EBITDA margin <sup>(2)</sup> :				
Railroad and Utility Products and Services	6.6%	9.0%	6.7%	9.3%
Performance Chemicals	15.3%	20.2%	15.1%	21.8%
Carbon Materials and Chemicals	16.7%	18.2%	19.3%	13.3%
Total	12.0%	15.7%	13.6%	14.3%

(1) The tables below describe the adjustments to EBITDA for the three and nine months ended September 30, 2018 and 2017, respectively.

(2) Adjusted EBITDA as a percentage of GAAP sales.

### UNAUDITED RECONCILIATION OF OPERATING PROFIT TO EBITDA AND ADJUSTED EBITDA

*(In millions)*

	Three months ended September 30, 2018				
	RUPS	PC	CMC	Corporate Unallocated	Consolidated
Operating profit (loss)	\$ 5.8	\$ 11.0	\$ 14.9	\$ (0.5)	\$ 31.2
Other income (loss)	(0.2)	0.2	(0.6)	(0.1)	(0.7)

Depreciation and amortization	4.9	4.4	3.7	0.0	13.0
Depreciation in impairment and restructuring charges	0.0	0.0	1.0	0.0	1.0
EBITDA with noncontrolling interest	\$ 10.5	\$15.6	\$19.0	\$ (0.6)	\$ 44.5
Unusual items impacting EBITDA:					
CMC restructuring	0.0	0.0	4.7	0.0	4.7
RUPS treating plant closures	(0.2)	0.0	0.0	0.0	(0.2)
Non-cash LIFO expense	1.4	0.0	0.3	0.0	1.7
Acquisition closing costs	0.0	0.0	0.0	0.1	0.1
Mark-to-market commodity hedging	0.0	1.0	0.0	0.0	1.0
Contract buyout	0.1	0.0	0.0	0.0	0.1
UIP inventory purchase accounting adjustment	0.5	0.0	0.0	0.0	0.5
Sale of specialty chemicals business	0.0	0.0	0.9	0.0	0.9
Adjusted EBITDA	\$ 12.3	\$16.6	\$24.9	\$ (0.5)	\$ 53.3
Adj. EBITDA % of Consolidated Adj. EBITDA (excluding corporate unallocated)		22.9%	30.9%	46.3%	

**UNAUDITED RECONCILIATION OF OPERATING PROFIT TO EBITDA AND ADJUSTED EBITDA**  
(In millions)

	Three months ended September 30, 2017				
	RUPS	PC	CMC	Corporate Unallocated	Consolidated
Operating profit (loss)	\$ 9.5	\$18.4	\$16.3	\$ (9.2)	\$ 35.0
Other income (loss)	(0.6)	0.4	(0.2)	0.7	0.3
Depreciation and amortization	2.9	4.4	4.8	0.0	12.1
Depreciation in impairment and restructuring charges	0.0	0.0	1.3	0.0	1.3
EBITDA with noncontrolling interest	\$ 11.8	\$23.2	\$22.2	\$ (8.5)	\$ 48.7
Unusual items impacting EBITDA:					
CMC restructuring	0.0	0.0	4.3	0.0	4.3
RUPS treating plant closures	0.2	0.0	0.0	0.0	0.2
Non-cash LIFO benefit	(0.1)	0.0	(0.4)	0.0	(0.5)
Mark-to-market commodity hedging (non-cash)	0.0	(1.0)	0.0	0.0	(1.0)
Pension settlement charge	0.0	0.0	0.0	8.8	8.8
Adjusted EBITDA	\$ 11.9	\$22.2	\$26.1	\$ 0.3	\$ 60.5
Adj. EBITDA % of Consolidated Adj. EBITDA (excluding corporate unallocated)		19.8%	36.9%	43.4%	

**UNAUDITED RECONCILIATION OF OPERATING PROFIT TO EBITDA AND ADJUSTED EBITDA**  
(In millions)

	Nine Months Ended September 30, 2018				
	RUPS	PC	CMC	Corporate Unallocated	Consolidated
Operating profit (loss)	\$ 5.9	\$28.2	\$64.6	\$ (1.9)	\$ 96.8
Other (loss) income	0.0	2.4	0.1	(3.7)	(1.2)
Depreciation and amortization	12.8	13.3	12.4	0.0	38.5
Depreciation in impairment and restructuring charges	0.0	0.0	3.7	0.0	3.7
EBITDA with noncontrolling interest	\$ 18.7	\$43.9	\$80.8	\$ (5.6)	\$ 137.8
Unusual items impacting EBITDA:					
CMC restructuring	0.0	0.0	12.4	0.0	12.4
Non-cash LIFO expense	5.2	0.0	1.1	0.0	6.3
Mark-to-market commodity hedging	0.0	5.5	0.0	0.0	5.5
Acquisition closing costs	0.0	0.0	0.0	3.1	3.1
Sale of land	0.0	(1.1)	0.0	2.2	1.1
Contract buyout	1.6	0.0	0.0	0.0	1.6
UIP inventory purchase accounting adjustment	6.0	0.0	0.0	0.0	6.0
Sale of specialty chemicals business	0.0	0.0	0.9	0.0	0.9
Adjusted EBITDA	\$ 31.5	\$48.3	\$95.2	\$ (0.3)	\$ 174.7
Adj. EBITDA % of Consolidated Adj. EBITDA (excluding corporate unallocated)		18.0%	27.6%	54.4%	

**UNAUDITED RECONCILIATION OF OPERATING PROFIT TO EBITDA AND ADJUSTED EBITDA**

(In millions)

	Nine Months Ended September 30, 2017				
	Corporate				Consolidated
	RUPS	PC	CMC	Unallocated	
Operating profit (loss)	\$ 30.1	\$ 56.6	\$ 24.9	\$ (10.4)	\$ 101.2
Other (loss) income	(1.4)	1.5	0.6	1.3	2.0
Depreciation and amortization	8.8	13.3	12.9	0.0	35.0
Depreciation in impairment and restructuring charges	0.0	0.0	4.5	0.0	4.5
EBITDA with noncontrolling interest	\$ 37.5	\$ 71.4	\$ 42.9	\$ (9.1)	\$ 142.7
Unusual items impacting EBITDA:					
CMC restructuring	0.0	0.0	9.8	0.0	9.8
RUPS treating plant closures	0.4	0.0	0.0	0.0	0.4
Non-cash LIFO benefit	(0.5)	0.0	(1.2)	0.0	(1.7)
Mark-to-market commodity hedging	0.0	(2.0)	0.0	0.0	(2.0)
Debt refinancing costs	0.0	0.0	0.0	0.1	0.1
Pension settlement charge	0.0	0.0	0.0	8.8	8.8
Adjusted EBITDA	\$ 37.4	\$ 69.4	\$ 51.5	\$ (0.2)	\$ 158.1

Adj. EBITDA % of Consolidated Adj. EBITDA (excluding corporate unallocated)

23.6% 43.8% 32.5%

**UNAUDITED RECONCILIATION OF NET INCOME TO EBITDA AND ADJUSTED EBITDA**

(In millions)

	Three Months Ended September 30, 2018		Nine Months Ended September 30, 2017	
	2018	2017	2018	2017
Net income	\$ 6.9	\$ 19.9	\$ 31.6	\$ 44.3
Interest expense	15.1	10.5	40.1	31.9
Loss on extinguishment of debt	0.0	0.0	0.0	13.3
Depreciation and amortization	14.0	13.4	42.2	39.5
Income taxes	8.6	4.8	24.4	12.4
(Income) loss from discontinued operations	0.0	0.1	(0.4)	1.3
EBITDA with noncontrolling interests	44.6	48.7	137.9	142.7
Unusual items impacting net income <sup>(1)</sup>				
Impairment, restructuring and plant closure costs	4.4	4.5	12.4	10.2
Mark-to-market commodity hedging	1.0	(1.0)	5.5	(2.0)
Non-cash LIFO expense (benefit)	1.7	(0.5)	6.3	(1.7)
Sale of specialty chemicals business	0.9	0.0	0.9	0.0
Debt refinancing costs	0.0	0.0	0.0	0.1
Pension settlement charge	0.0	8.8	0.0	8.8
Acquisition closing costs	0.1	0.0	3.0	0.0
Sale of land	0.0	0.0	1.1	0.0
Contract buyout	0.1	0.0	1.6	0.0
UIP inventory purchase accounting adjustment	0.5	0.0	6.0	0.0
Total adjustments	8.7	11.8	36.8	15.4
Adjusted EBITDA with noncontrolling interests	\$ 53.3	\$ 60.5	\$ 174.7	\$ 158.1

(1) Refer to adjustments under Unaudited Segment Information.

**UNAUDITED RECONCILIATION OF NET INCOME ATTRIBUTABLE TO KOPPERS AND ADJUSTED NET INCOME**

(In millions)

	Three Months Ended September 30, 2018		Nine Months Ended September 30, 2017	
	2018	2017	2018	2017
Net income attributable to Koppers	\$ 7.6	\$ 19.8	\$ 26.0	\$ 43.9
Unusual items impacting net income				
Impairment, restructuring and plant closure costs	5.5	6.5	16.6	15.7
Mark-to-market commodity hedging	1.0	(1.0)	5.5	(2.0)
Non-cash LIFO expense (benefit)	1.7	(0.5)	6.3	(1.7)
Debt refinancing costs	0.0	0.0	0.0	13.3

Pension settlement charge	0.0	8.8	0.0	8.8
Acquisition closing costs	0.1	0.0	3.1	0.0
Sale of land	0.0	0.0	1.1	0.0
Sale of specialty chemicals business	0.9	0.0	0.9	0.0
Contract buyout	0.1	0.0	1.6	0.0
UIP inventory purchase accounting adjustment	0.5	0.0	6.0	0.0
Total adjustments	9.8	13.8	41.1	34.1
Adjustments to income tax and noncontrolling interests				
Income tax on adjustments to pre-tax income	(2.2)	(2.2)	(9.7)	(7.4)
Income tax - U.S. Tax Reform	0.4	0.0	5.3	0.0
Noncontrolling interests	0.0	0.0	0.0	0.2
Effect on adjusted net income	8.0	11.6	36.7	26.9
Adjusted net income including discontinued operations	15.6	31.4	62.7	70.8
(Income) loss from discontinued operations	0.0	0.1	(0.4)	1.3
Adjusted net income	\$ 15.6	\$ 31.5	\$ 62.3	\$ 72.1

**UNAUDITED RECONCILIATION OF DILUTED EARNINGS PER SHARE AND  
ADJUSTED EARNINGS PER SHARE**

*(In millions except share amounts)*

	<i>Three Months Ended</i>		<i>Nine Months Ended</i>	
	<i>September 30,</i>	<i>September 30,</i>	<i>September 30,</i>	<i>September 30,</i>
	<i>2018</i>	<i>2017</i>	<i>2018</i>	<i>2017</i>
Net income attributable to Koppers	\$ 7.6	\$ 19.8	\$ 26.0	\$ 43.9
Adjusted net income (from above)	\$ 15.6	\$ 31.5	\$ 62.3	\$ 72.1
Denominator for diluted earnings per share (in thousands)	21,700	21,911	21,892	21,927
Earnings per share:				
Diluted earnings per share	\$ 0.35	\$ 0.91	\$ 1.19	\$ 2.00
Adjusted earnings per share	\$ 0.73	\$ 1.43	\$ 2.84	\$ 3.29

**UNAUDITED RECONCILIATION OF TOTAL DEBT TO NET DEBT AND NET LEVERAGE RATIO**

*(In millions)*

	<i>Twelve months ended</i>		
	<i>September 30, 2018</i>	<i>Proforma September 30, 2018</i>	<i>December 31, 2017</i>
Total Debt	\$ 1,044.9	\$ 1,044.9	\$ 677.0
Less: Cash	62.5	62.5	60.3
Net Debt	\$ 982.4	\$ 982.4	\$ 616.7
Adjusted EBITDA	\$ 217.1	\$ 227.6	\$ 200.4
Net Leverage Ratio	4.5	4.3	3.1

**UNAUDITED RECONCILIATION OF NET INCOME TO EBITDA AND ADJUSTED EBITDA ON A LATEST TWELVE MONTH BASIS**

*(In millions)*

	<i>Twelve months ended</i>	
	<i>September 30, 2018</i>	<i>December 31, 2017</i>
Net income	\$ 17.8	\$ 30.5
Interest expense including refinancing	50.4	55.8
Depreciation and amortization	65.5	62.8
Income tax provision	41.1	29.0
(Income) loss from discontinued operations	(0.8)	0.8
EBITDA	174.0	178.9
Unusual items impacting net income:		
Impairment, restructuring and plant closure	18.1	15.9
Non-cash LIFO expense (benefit)	7.5	(0.5)
Mark-to-market commodity hedging	4.0	(3.5)
Reimbursement of environmental costs	(0.3)	(0.4)
Acquisition closing costs	3.1	0.0
Sale of land	1.1	0.0
Contract buyout	1.6	0.0

UIP inventory purchase accounting adjustment		6.0		0.0
Sale of specialty chemicals business		0.9		0.0
Pension settlement charge		1.1		10.0
Adjusted EBITDA with noncontrolling interests	\$	217.1	\$	200.4
Proforma adjusted EBITDA from acquisitions		10.5		0.0
Proforma adjusted EBITDA with noncontrolling interests	\$	227.6	\$	200.4

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