



Railroad and Utility Products and Services



BUILDING GREAT LINES FROM THE GROUND UP™



# Railroad Products

The Koppers name is a respected global brand built upon decades of excellence. Koppers operates facilities in Australia, China, Denmark, the Netherlands, the United Kingdom and the United States. Our world headquarters is located in Pittsburgh, Pennsylvania, USA.

## Wooden crossties, switch ties and bridge material

Koppers is the Western Hemisphere's leading supplier to the North American railroad industry. We have the plant locations and raw material network to serve national and international customers of any size.

## KSA concrete ties

KSA ties mean reduced track maintenance, improved track surface, increased rail life and reduced locomotive fuel cost.

## Advanced patented borate tie treatment

Koppers Dual-Treated ties employ both borates and Koppers Creosote Petroleum Solution. Utilizing the Tru-Core® treatment process, borates provide interior protection while Koppers Creosote Petroleum Solution creates a powerful barrier to external elements. By applying both proven preservatives, Koppers extends the working life of railroad ties, providing thorough resistance to termites, wood boring insects and fungal decay.

Tru-Core® process manufactured under license from Kop-Coat Inc.



# and Services

## Tie pre-plating and track panels

Prompt delivery and a variety of track panel designs are offered. Koppers three mobile pre-platers can be used at various treating facilities to meet customer requirements.

## Crossing panels and low vibration track (LVT) support modules

Our crossing panels and LVT solutions are the preferred choice to meet the transportation demands of today and tomorrow.

## Rail joints and track components

Koppers offers a wide range of rail joints and track components for the worldwide rail industry.



# The Wooden Crosstie

## WOODEN CROSSTIES AND CONCRETE CROSSTIES

As a global company, Koppers has the strength and size to move commerce, drive innovation and service the international market like no other supplier.

## ACCESS AND SUPPLY

Our national tie procurement network assures availability of Koppers crossties, switch ties and bridge material when and where railroads need them. Koppers has met that goal for over three-quarters of a century. To sustain an uninterrupted supply of crossties, Koppers maintains a network of over 30 hardwood crosstie concentration yards to supply our nine treating plants.

## EXCEPTIONAL QUALITY

Koppers wood treatment plants produce high quality creosote treated and creosote borate treated crossties, switch ties and bridge material. All Koppers wood treatment plants maintain the AAR M-1003 Quality Certification, as well as the ISO 14001 Environmental Certification.

## NINE STRATEGICALLY LOCATED WOOD TREATING PLANTS

- Denver, CO
- Florence, SC
- Galesburg, IL
- Green Spring, WV
- Guthrie, KY
- North Little Rock, AR
- Roanoke, VA
- Somerville, TX
- Susquehanna, PA



# Strength in Size and Service

## R & D and Wood Treatment

Koppers is the largest creosote supplier in North America. We pride ourselves on strong affiliations with leading American and internationally recognized trade associations and our knowledge of the latest applications, environmental issues and emerging technology. Our size allows us to do business on the cutting edge of the railway industry to serve our customers at the highest level.

### WE CONTROL EVERY ASPECT OF OUR PROCESS TO ENSURE QUALITY

Koppers is one of the few suppliers that manage every aspect of the crosstie production process, from timber to treatment to transport. Our wooden crossties are made of premium, preferred North American hardwoods, such as oaks, hickories, gums and maples, among other approved species. Our Creosote Petroleum Solution (CPS) is an EPA registered pesticide developed by us for use in our pressure treated wooden crossties.

### RESEARCH AND DEVELOPMENT EXCELLENCE

Our products are supported by innovations from our research and development facility located in Harmarville, Pennsylvania, USA. As a division of a global corporation, Koppers Railroad and Utility Products and Services is able to harness the unmatched innovation and expertise of our businesses around the world.

### OUR SAWMILL NETWORK

Our network includes more than 1,000 sawmills—long-standing, strong relationships we have developed and cultivated for generations. When it comes to robust inventory, faster procurement and unsurpassed purchasing power, other suppliers simply cannot match the pace of Koppers.



# Rail Joints and Track Components

## One Source for All Types

Koppers full range of rail joints and track components have a worldwide, field proven reputation. Whether for heavy-haul freight or passenger service lines, Koppers has the products and the dedication to customer service that keeps our rail customers moving forward, decade after decade.

### HISTORY

In December 2010, the acquisition of a highly respected rail joint product line and production facility in Huntington, WV broadened Koppers already-strong leadership in the railroad products and services sector. The Huntington facility (210,000 sq. ft.) is served by CSX and maintains the ISO 9001 Quality Certification. We now provide industry-leading rail joint and track component products which supplement our core business of wood and concrete ties for the worldwide rail transportation industry—furthering our mission of “BUILDING GREAT LINES FROM THE GROUND UP”™

### RAIL JOINTS

#### Bonded (Glued)

Available in kits and as factory-made plugs up to 80 foot lengths

- Two-Part Epoxy Design System
- Thermabond™ Adhesive and Insulator System for Factory and Field Bonded Joints Kits

#### Premium Bonded (Glued)

Available as factory-made plugs up to 80 foot lengths

#### Kevlar Bonded Insulated Rail Joints

- Center Liner™ Bonded Insulated Rail Joints
- LAP™ Type Bonded Insulated Rail Joints

#### ComPly™ Epoxy Fiberglass (Dry)

Available as kits

#### Polyurethane Encapsulated (Dry)

Available as kits

#### Insulation Kits (Dry)

Available for use in armored or regular continuous insulated joints

#### Standard Joints

Available in AREMA standard designs and special high-relief type designs

#### Weld-Mate™ Weld Repair Joint Bars

### TRACK COMPONENTS

- Polyurethane Encapsulated Gage Plate Insulators
- ComPly™ Epoxy Fiberglass Gage Plate Insulators
- ComPly™ Epoxy Fiberglass Switch Rod
- Insulated Tie Plates



# KSA's Concrete Tie

## Market Knowledge and Product Expertise

### PARTNERS FOR THE FUTURE

Combine Koppers—with a long history of providing exceptional crossties and switch ties to the railroad industry—and Lehigh-Hanson Inc. of Irvine, TX—a leader in prestressed concrete technology—and the result is KSA, located in Portsmouth, OH. KSA maintains both AAR M-1003 and Precast/Prestressed Concrete Institute MNL 116 certification. KSA is perfectly positioned to serve North America's railroads with prestressed concrete crossties, switch ties, crossing panels, low-vibration track (LVT) blocks and related concrete products.

### FAILURE IS NOT AN OPTION

KSA's prestressed concrete crossties are ideal for high-speed rail, heavy-haul mainlines, mass transit and industrial siding applications. KSA also offers 6'0" gantry ties, switch ties, grade crossing systems, low vibration track (LVT) blocks, retaining wall panels and turnout assembly. A track record with more than 20 years of extensive research and exceeding PCI and AREMA performance recommendations should make KSA your first choice when it comes to concrete railroad products.



### KSA PRODUCTS AND SERVICES

- Prestressed Concrete Crossties
- Prestressed Concrete Switch Ties
- Concrete Grade Crossing System
- Concrete Low Vibration Track (LVT) Blocks
- Concrete Wall Panels
- Pre-Assembly Services
- Wood Tie Rehabilitation
- Research/Testing/Quality Assurance



# Koppers Means Faster Distribution

## Distribution and Global Reach

### INDUSTRY RELIES ON KOPPERS

Koppers has an efficient network of procurement yards and treatment plants to maximize responsiveness. All are located on major rail lines and many are in close proximity to key seaports.

### INTERNATIONAL REACH AND LOGISTICS

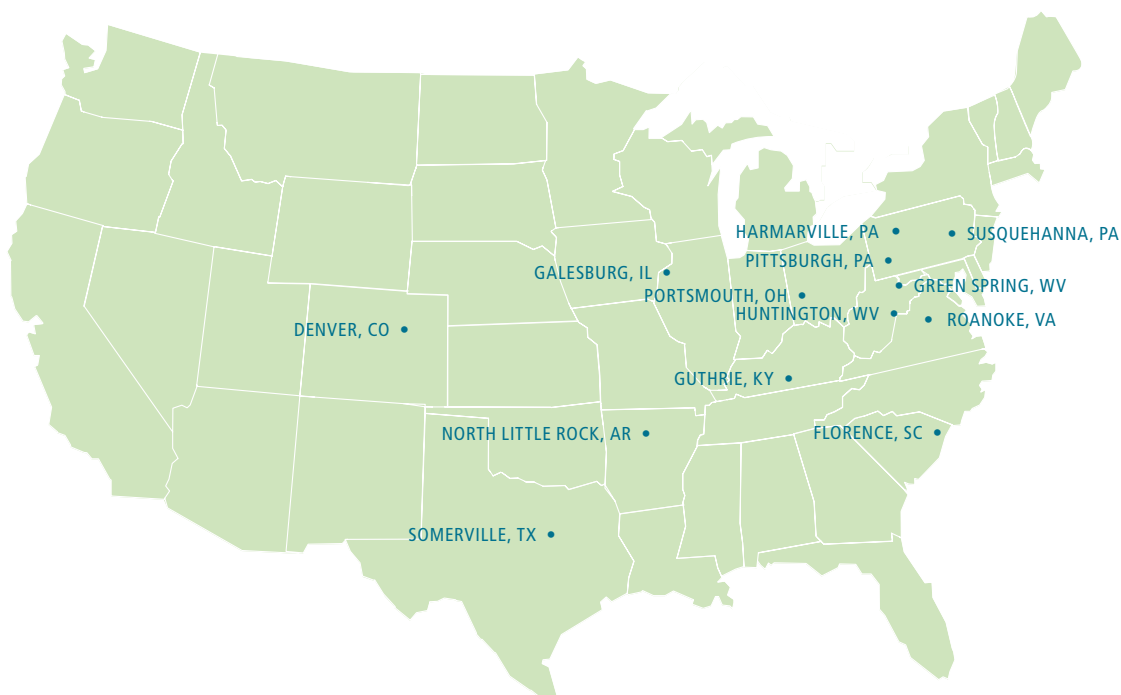
Given our longevity, size and global scope, Koppers is ideally suited to serve international customers. Our global experience makes a world of difference. We work with proven international partners who assist us with the cost, insurance and freight (CIF) challenge of shipping large quantities of

creosote treated railroad crossties overseas. We have the inventory, the expertise and the resources to get them there.

### LARGE ENOUGH TO DELIVER

With nine wood treating plants online with Class I railroads, and multiple raw material locations throughout the United States, Koppers customers enjoy shorter delivery times and lower transport costs. This extensive network creates a tremendous advantage for our customers.

## Strategic Locations





# We Care About Doing It Right

## Safety Health and Environmental Impact

At Koppers, we have an unwavering commitment to do things the right way. That means that we're focused on delivering the highest-quality products to our customers while minimizing impacts on the environment and the communities where we live and work. It's as important to us to be a good neighbor and a safe employer as it is to be a good business partner.

### MANAGING FOR EXCELLENCE

We have invested in management systems (including ISO14001) that guide us in meeting and exceeding both regulatory mandated and voluntary standards of safety, health, and environmental stewardship. Our emphasis on integrating Koppers Strategic Priorities of Operational Excellence, Safe and Healthy Workplace, and Exemplify Corporate Citizenship into daily operations means that it's everyone's job to ensure consistently high levels of safety and environmental performance.



### A GLOBAL CULTURE OF RESPONSIBILITY

We view compliance with established government and industry regulations and standards as a minimum performance baseline. Our desire to make a positive impact starts with the employees at our plants and facilities around the world and extends to our surrounding communities and neighborhoods.

### TRACKING OUR IMPACT

We know that by effectively measuring and tracking our performance, we can better address risks and challenges in the future. Koppers has identified key performance metrics which serve as a dashboard for assessing and managing the company's performance on health, safety, and environmental issues. Performance is disclosed publicly through our ongoing annual sustainability reporting.

### MOVING FORWARD ON OUR JOURNEY

Despite our long history and past achievements, we know that we can always do better. Our Strategic Priorities and enduring focus on safety, health, and environmental issues ensures that Koppers continues to move the rail industry forward. We hope you will come along for the ride.

**Choose from a complete selection of  
Koppers railroad products and services  
from a trusted global partner.**

**Corporate Headquarters**

**Pittsburgh, PA**

**Research and Development**

**Harmarville, PA**

**SALES OFFICE**

**Pittsburgh, PA**

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Shortline Railroads, Contractors, Transits and Other Inquiries  
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Visit our website at [www.koppers.com](http://www.koppers.com)

**WOOD TREATING PLANTS**

Denver, CO  
Florence, SC  
Galesburg, IL  
Green Spring, WV  
Guthrie, KY  
North Little Rock, AR  
Roanoke, VA  
Somerville, TX  
Susquehanna, PA

**CONCRETE PRODUCTS-KSA**

Portsmouth, OH

**RAIL JOINTS / TRACK COMPONENTS**

Huntington, WV

KOPPERS 



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