



PPG Industries

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## PPG: Growth, Leadership, Innovation

**PPG Industries is a leader in its markets, a streamlined, efficient manufacturer and operates on the leading-edge of new technologies and solutions.**

With global headquarters in Pittsburgh, PPG operates in over 60 countries with 40,000 employees in more than 150 manufacturing facilities and equity affiliates around the world.

### Our Vision

It is our vision to continue to be the world's leading coatings and speciality products and services company, serving customers in construction, consumer products, industrial and transportation markets and aftermarkets.

### Innovation and Technology

Innovation and technology have been a hallmark of our company's success throughout its history. At the dawn of the 21st century, technological innovation has made PPG the world's leading maker of transportation coatings and a major global supplier of industrial and packaging coatings, flat and fabricated glass, continuous strand fibre glass, and industrial and speciality chemicals.



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### Quality

The key to further strengthening PPG operations is our Total Quality Process. Through teamwork and individual actions, every PPG associate is challenged to continuously devise ways of improving their job, as well as related processes. The focus is on the customer... learning their exact needs; doing the right things the first time, every time; giving customers the product they want, when they want it. In short, continuously striving for total customer satisfaction.

### Excellence by Design

Along with our planned commitment to provide the highest quality products and services to our customers, our Blueprint for the Future is also dedicated to making all operations as safe and cost-efficient as possible for the benefit of our shareholders and employees. Ongoing, vigorous product and market development through company-developed technology, coupled with thoughtful acquisitions and joint ventures, help to ensure long-term, qualitative as well as quantitative growth.

### Safety and Environmental Considerations

The health and safety of our employees, customers, and the public, during the production, handling, use, transportation or disposal of chemicals is one of PPG's highest priorities. Indicative of our commitment to this goal is our active participation in the Chemical Manufacturers Association's Responsible Care® programme. Members of this association pledge to adhere to its guiding principles on the protection of personal health and safety, as well as the preservation of the environment.





## PPG: We've got the world covered

Wherever you look - in the home, at the office, in the car or when you are out and about, the chances are that you will be surrounded by products that have used PPG coatings as part of their manufacture and maintenance.

From windows in a plane to the paint on your car; from your mobile phone to the carton of orange juice you had for breakfast; from the wooden flooring in your living room to the golf ball you just drove down the fairway - PPG really have got the world covered.



### At home:

As well as painted surfaces, wooden floors and electrical equipment, all your kitchen appliances may well be finished using PPG's environmentally responsible coatings.

### On the road:

Your car uses PPG products on many of its surfaces, both inside and outside. The tyres may also use PPG silica products in their manufacture and even the metal alloy wheels could be finished with PPG protective coatings.

### At work:

The computer or mobile phone that you use at work may have had a protective coating or a reinforced fibre glass circuit board developed with products manufactured PPG.

The Transitions lenses in your glasses have also been exclusively produced by PPG.

### Leisure activities:

The golf ball or gym equipment you use for leisure and fitness, as well as the coffee cups and drinks cartons used in vending machines and food packaging found in your local supermarket - all use coatings or protective layers developed by PPG.

### On holiday:

Aircraft construction uses PPG technology in the fabrication of windscreens, canopies and windows, as well as in the sealants and paints used on the outside.

Many passports also use Teslin®, PPG's unique microporous synthetic sheet coating.





## PPG Industrial

Through the years, PPG Industrial Coatings has earned a reputation for innovative, high-performance products and world-class service, making us a longtime leader in the marketplace. Today, we serve most of the world's top designers and manufacturers.

PPG Industrial Coatings is committed to providing the highest quality customer service in the coatings industry. Our highly knowledgeable support personnel provide a range of services from colour matching to proactive monitoring of your coating facility operations and troubleshooting any application problems that might arise.

PPG's Global Account Managers and technical laboratory staff work closely with original equipment manufacturers (OEMs), original design manufacturers (ODMs) and applicators to ensure that PPG coatings not only meet all performance requirements, but that they are applied problem-free. Our experts can guide you through product usage training, laboratory testing, operational troubleshooting and process design to maximise your uptime and application efficiency.

Because PPG is a global supplier, coatings quality and consistency is of primary concern. Leading OEMs and applicators use our global coatings platform to ensure their coatings are exactly the same, no matter where in the world their finishing processes are located. We also act as a regional supplier, using locally sourced raw materials in the manufacturing process to reduce costs.

Although PPG provides coatings and services to the global marketplace, day-to-day operations with customers are managed at the local level, enabling us to provide the services you need, when you need them.

## PPG Packaging

PPG is one of the world's leading producers of packaging coatings and supplies innovative, high-performance products for virtually every end-use market sector. They include coatings for steel, aluminium, plastic, glass and paperboard packaging materials.

Long-range fundamental research is directed from PPG's Coatings Innovation Centre in Allison Park, Pennsylvania. Additional PPG R&D facilities are located in Ohio, France, England, China, Brazil, Thailand, Australia and Germany. They focus on specific packaging technologies and unique geographic marketplace needs.

Each day PPG packaging coatings are used in the manufacturing of more than 200 million beer and beverage cans around the world. Globally, more beer and beverage aluminium cans are externally protected by PPG packaging coatings than by any other manufacturer.

In Europe, PPG is a leading supplier of both interior and exterior coatings for two-piece steel beer and beverage cans. Worldwide, PPG is one of the largest suppliers of interior and exterior beer and beverage can coatings.



## PPG Aerospace

PPG Aerospace is one of the world's leading suppliers of aircraft transparencies, coatings, sealants, and application systems for OEMs and aftermarket customers in the commercial, military, regional jet and business aviation industries.

PPG Aerospace is defined by a unique grouping of products and services. It's driven by the resources to develop innovative solutions and supported by the initiative to be smart about everything we do from manufacturing to packaging and delivery to customer service.

Our breakthrough environmentally-friendly, performance enhancing, and lightweight solutions are built on a keen understanding of both the aerospace industry and our customers' day-to-day challenges.



PPG Aerospace is fuelled by a continued dedication to products and services and innovative technology to take our customers into the future.

## PPG Protective & Marine

PPG Protective and Marine Coatings provides you with the industry's broadest product offering, distribution and knowledge.

PPG Protective and Marine Coatings is a global leader in the development of innovative technologies in the high-performance coatings industry.

Equipped with the latest laboratory facilities for formulating and testing, our technical centre in the Netherlands is responsible for product development, technical support and product training.

PPG Protective and Marine Coatings products are protective and decorative coatings for steel and concrete, commercial and industrial equipment, oil and gas production, refining, petrochemical processing, marine, infrastructure maintenance, railroad, fossil and nuclear power, general manufacturing, municipal water and waste treatment.

So whether you need corrosion prevention or fire protection at a plant or an offshore platform – PPG Protective and Marine Coatings serves your needs.



## PPG Architectural

PPG Architectural Finishes is a global leader with leading, recognised brands on all continents providing superior-performing paint for virtually any application in any environment.

As a market leader we are able to offer a wide range of coatings suitable for any environment: from low-odour coatings to low-temperature cure coatings, PPG has the right product for any job. It's our unique experience and expertise that has enabled us to develop high-quality products for all market segments: residential, commercial, new home construction and high-performance industrial.

### PPG / SigmaKalon Coatings

PPG Architectural Coatings (EMEA) is the second largest supplier of architectural coatings in Europe and serves the needs of professional and consumer customers throughout Europe, Africa, The Middle East, and French Overseas. Our collective portfolio of leading brands, known for their superior quality and aesthetic appeal, are available in a range of formulas to meet the most diverse needs of customers.

### For the Homeowner:

We supply private label paints for Europe's largest DIY chains and retailers, demonstrating the competitiveness of our manufacturing base and our ability to react quickly to new market trends. Our brands are recognised internationally for their quality, colour range and ease of application and are sold through major retail groups and independent shops, with significant share in many countries.

### For the Professional:

Professional painters rely on the quality of our coatings and the ability to easily find them. We provide architectural coatings and sundry products directly to professional painters via a network of 500 owned speciality trade centres - the largest in Europe. Furthermore, our brands are also available through a network of more than 3,000 independent wholesalers, all that give us a direct relationship with our customers.

## PPG Optical

PPG Industries' commitment to the ophthalmic industry, from the origins of our CR-39 monomer to the development of Trivex material and lens coatings - all considered breakthrough optical materials - is unquestioned.

As a member of the American Chemistry Council, PPG is committed to the Responsible Care Product Stewardship initiative.

### Transitions Lenses

Transitions lenses are designed for daily use. They offer all the benefits of clear lenses indoors and much more outdoors.

Transitions lenses automatically adapt to changing outdoor light conditions to help reduce glare and prevent eye fatigue. They also preserve eye health as they block 100% of harmful UV rays.

Transitions Optical is the leader in photochromic technology and the number one recommended photochromic lens worldwide. In 1991, Transitions Optical revolutionised the industry with the first commercially-viable plastic photochromic lenses.

Since then, our scientists have researched, developed and offered innovative technologies to produce unparalleled lens performance in nearly every lens design, as well as standard and high-index materials.

In addition, Transitions Optical, together with the scientific community, is conducting research about UV, glare, contrast sensitivity and other subjects concerning eye health.



## PPG Fine Chemicals (Silicas)

PPG Fine Chemicals is a global leader and manufacturer of custom organic chemical products and general-use fine chemical products used in pharmaceuticals, agricultural applications and many others. PPG Fine Chemicals brings the solutions, technology and responsibility of a global partner to you. You can trust us to help you develop new products, manage production needs and better position your company for future growth.

Our facilities in the United States, Europe and Asia provide our customers with pharmaceutical fine chemicals ranging from starting materials to advanced cGMP intermediates to complex APIs.

## PPG Chlor-Alkali & Derivatives

PPG is a major, global producer of organic and inorganic chemicals. We are one of the largest producers and marketers of caustic soda, chlorine and its derivatives, and products used in the manufacture of plastics, paper, aluminium and detergents.

We also expect future progress to come from growth in our family of performance-related chemical products. Today, we have several significant "niche" businesses making up the bulk of this segment. They consist of silica's additives, optical monomers, and photochromic lenses for eyewear.

PPG's Chlor-Alkali and Derivatives business is a global leader of chemical products found in industries ranging from pulp and paper to water treatment to engineered plastics.

Operating from manufacturing facilities in the U.S., Canada and Asia, PPG's Chlor-Alkali and Derivatives maintains five distinct product lines:

- chlor-alkali products
- calcium hypochlorite
- chlorinated benzenes
- chlorinated ethylene derivatives
- sulphur chemicals

Chlorine, one of the most abundant and ubiquitous chemical elements on earth, is also one of the most important building blocks of modern industry. Whether present in the final product, or used in an intermediate process and absent from the final product, chlorine is essential to producing countless items we rely on everyday.



We have the right equipment and a dedicated team to quickly provide the validated industrial processes you need to meet your deadline. In fact, many customers use our advanced environmental and regulatory expertise to augment their internal validation process. Our facilities are designed to be flexible and versatile to field tough challenges that other suppliers can't - or won't. From grams to metric tons, PPG Fine Chemicals is your complete scale-up and validation resource.

Complex and difficult chemistry is our business. Safety and the environment are our responsibility.

### Manufacturing Excellence

Your pharmaceutical supplier should offer commercial synthesis capability. But at PPG Fine Chemicals we go beyond this by performing even the most challenging chemistries on an industrial scale. Whether for starting materials or complex APIs, in kilograms or metric tons, we manufacture with the compliance, cost-efficiency and capacity available only from a true resource.

### cGMP Compliance – Quality You Expect

You expect your pharmaceutical fine-chemical manufacturing partner to offer the quality and cGMP environment found at PPG Fine Chemicals. We take it a step further and offer you partnership, collaboration and credibility that make your regulatory challenges manageable. PPG Fine Chemicals... your true resource.

Chlorine and chlorinated products help deliver safe water safely. They are used to produce life-saving drugs and medical equipment; protective gear for police, firefighters, astronauts and racing car drivers; micro-processing chips for the Information Age; and crop protection chemicals that help ensure a safe and plentiful food supply.

In addition, chlorine's co-product, caustic soda, is also fully integrated into the economy through a wide variety of industrial applications.

It is valued for its neutralising power and as an absorbent. It is used directly in the production of pulp and paper, aluminium, petroleum and natural gas refining and processing.

It is used for pollution control to remove acid contaminants from gases prior to discharge to the atmosphere.

Chlorine chemistry is used in over 50 percent of all industrial chemical processes, including 90 percent of pharmaceuticals and 96 percent of crop protection chemicals.



## PPG Fibre Glass

PPG Fibre Glass is an industry leader serving customers worldwide through nine manufacturing sites and a network of local sales and technical-support professionals.

Consumers see and use fibre glass reinforced products every day. From the airplanes and cars that help us travel, to pools and snowboards to help us relax, to the circuit boards in our electronics, fibre glass supports our modern lifestyle.

Fibre glass is also helping to increase sustainability worldwide. It is a main component of wind turbines, helping to make the turbines larger and stronger. Fibre glass is used in the coal industry to help filter out toxins from the air, and it is used in the oil and gas industry to increase the lifespan of pipes and tanks.

## PPG Performance Glazing

Choosing windows? The decision is an easy one, when you know PPG glass. The glass that offers quality, innovation, durability, and comfort in any climate.

At PPG we understand the importance of energy-efficient windows. PPG glass technology and PPG products play a critical role in improving overall performance.

Rely on our glass technology expertise to support your reputation on the job. We make residential glass that enhances your home's energy efficiency in cold or hot weather. We offer a variety of tinted glass products. We developed the Intercept™ spacer system. We even make a glass that cleans itself.

PPG Industries has pioneered much of the residential glass technology you'll find in some of the world's best windows. Before you choose windows for your next project, take a minute to learn more about the glass.

Unparalleled solar control performance, ultra-clear transparency and an incomparable array of ocean and earth-inspired tints. Architects can find it all with PPG Architectural Glass, backed by the responsive service, trust and experience of an international network of highly-skilled glass fabricators.

Whether specified alone or in combination, these PPG glass products offer architects an unmatched balance of performance and aesthetics.



## PPG Automotive

Since our beginnings in 1924, PPG Automotive Coatings has been focused on delivering innovative solutions. The first to introduce many coatings products to the automotive marketplace, including cathodic electrocoat, powder clearcoat, compact paint systems, factory-applied spray-in bedliners, and more, PPG remains at the forefront of innovation. Today, PPG Automotive Coatings offers a complete line of coatings products to automotive manufacturers worldwide.

PPG is setting the global standard for service in application process management, paint shop materials procurement, inventory management, waste management, training, safety and more. PPG's Optima Solutions® services are designed to:-

- Increase the effectiveness of any customer's non-core functions
- Allow for access to best business practices while providing a means for effective implementation
- Utilise continuous improvement programmes for all processes
- Allow customers to focus on core business

## PPG Refinish

When you choose PPG Automotive Refinish products you benefit from 80 years of experience in developing automotive coatings. Regardless of the product chosen, you can expect PPG to meet the most demanding requirements for gloss, durability, speed, efficiency and ease of use.

Today, two out of every three cars made in Europe and North America now use PPG technology and know-how, making PPG the supplier of choice for motor manufacturers.

With all this knowledge and experience of the industry channelled into the development of our refinish products, it makes sense to choose PPG as your refinish paint supplier.

PPG Industries knows automotive colour. For more than 80 years, PPG has been at the forefront of automotive coatings innovation. PPG combines its extensive knowledge of coatings and special effects technologies with analysis of industry trends to aid automakers around the world in enhancing the image and identity of their vehicle brands.

The members of the PPG Global Design and Colour Marketing Team research cultural, social and lifestyle trends to create cutting-edge colour palettes and special effects that meet automakers goals for brand identity, durability, workability and cost-effectiveness. Year after year, the team is dedicated to providing the latest colours and technologies to help automakers achieve their marketing and sales objectives.

In the paint and coatings business, there is nothing more important than colour match. As the global leader - with colour experts working across four continents - PPG manages a worldwide colour database of more than one million formulas that is updated with over 10,000 colour matches every year. PPG also works in close partnership with vehicle manufacturers and pigment suppliers to stay ahead of the latest OEM pigmentations and colour formulations.

Add to that PPG's latest colour matching information, software and technology - and you will be assured of having the right tools to get the right colour every time.

All our products are supported by a range of bodyshop services that are second-to-none. Whether it is detailed product training or business performance support, PPG has the ability to "make it happen".

Within the refinish market, PPG offers a comprehensive range of innovative products, market leading colour offer and a broad range of services through its three brands:

**Nexa Autocolor** is one of the world's leading and most respected paint brands within the automotive refinish industry. Nexa Autocolor offers innovative refinish solutions that deliver profitability through repair process optimisation.

**MaxMeyer** offers robust, simple and easy to use products based on proven technology supported by practical colour and system support tools.

**PPG** brand's strong links with motor manufacturers allows it to offer superior products and services, enabling bodyshops to focus on enhanced productivity and profitable growth.



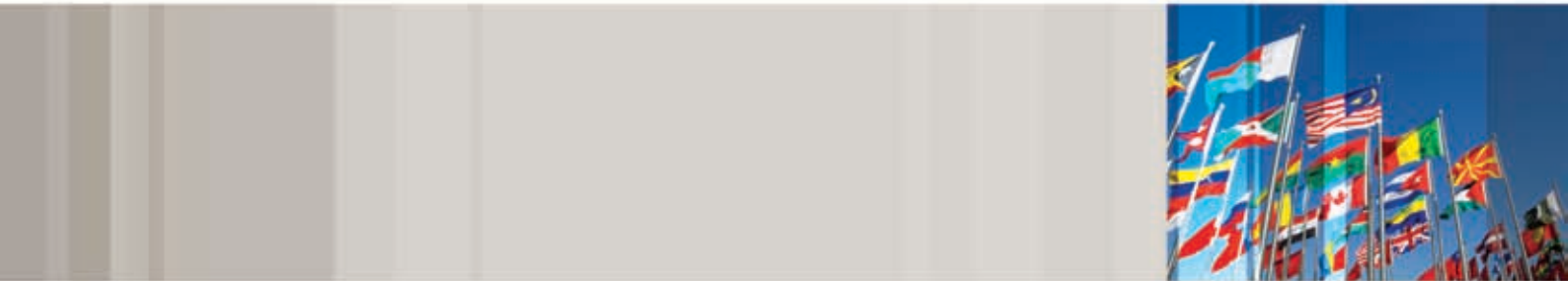
PPG: A Global Brand



PPG Industries is a global, multi-billion dollar diversified manufacturer that supplies paints, coatings, chemicals, optical products, speciality materials, glass and fibre glass.

It is PPG’s vision to continue to be the world’s leading coating and speciality products company, serving customers in industrial, transportation, consumer products, construction and aftermarkets.

With global headquarters in Pittsburgh, PPG operates in over 60 countries with 40,000 employees in more than 150 manufacturing facilities and equity affiliates around the world.



Headquarters:

PPG Industries, Inc.  
Pittsburgh, USA

PPG Industries Europe SàRL  
Rolle, Switzerland

PPG Industries International, Inc.  
Taikoo Shing, Hong Kong

PPG Manufacturing /  
Research & Development Facilities:

- |              |                    |                  |
|--------------|--------------------|------------------|
| 1. America   | 7. Canada          | 25. New Zealand  |
| 2. Argentina | 8. Chile           | 26. Philippines  |
| 3. Australia | 9. China           | 27. Poland       |
| 4. Belgium   | 10. Czech Republic | 28. Qatar        |
| 5. Brazil    | 11. Egypt          | 29. Saudi Arabia |
| 6. Cameroon  | 12. England        | 30. Senegal      |
|              | 13. France         | 31. Singapore    |
|              | 14. Gabon          | 32. Slovakia     |
|              | 15. Germany        | 33. South Africa |
|              | 16. Hungary        | 34. South Korea  |
|              | 17. India          | 35. Spain        |
|              | 18. Indonesia      | 36. Suriname     |
|              | 19. Ireland        | 37. Switzerland  |
|              | 20. Italy          | 38. Taiwan       |
|              | 21. Ivory Coast    | 39. Thailand     |
|              | 22. Malaysia       | 40. Turkey       |
|              | 23. Mexico         | 41. Ukraine      |
|              | 24. Netherlands    | 42. Uruguay      |