

PPG: Sustainability

April 2017



“We continued to strengthen our paint, coatings and specialty materials businesses around the world in 2016 while maintaining our focus on sustainable operations.”

Michael H. McGarry
Chairman and Chief Executive Officer



Sustainability Goals:

- 40 percent of sales from sustainable products and processes by 2020.
- 10 percent reduction in total waste disposal intensity by 2020 from a 2012 baseline.
- 25 percent reduction in greenhouse gas intensity by 2020 from a 2012 baseline.
- On our path to eliminating spills, ensure that we achieve an improvement of at least 10 percent per year in our spills and releases rate.
- Implement water management plans at priority sites.
- Zero injuries. On our path to zero injuries, ensure that we achieve an improvement of at least 5 percent per year in our injury and illness rate.
- Implement wellness programs at 100 percent of PPG facilities globally by 2020.
- Implement the PPG Community Engagement Framework globally by 2020.

2016 Progress:

- 31%** Sales from sustainable products and processes in 2016
- 11%** Reduction in total waste disposal intensity since 2012
- 29%** Decline in greenhouse gas emissions intensity since 2012
- 36%** Reduction in energy intensity since 2012
- 21%** Reduction in water usage intensity since 2012
- 73%** Reporting locations with 50 or more employees had a wellness program in 2016
- 70%** Facilities met PPG Community Engagement Framework requirements in 2016

Key Rankings and Awards:

- Fortune World's Most Admired 2017 (No. 1 in chemicals industry)
- No. 43 on the U.S. 500 and No. 81 on the Global 500 Newsweek Green Rankings
- Human Rights Campaign's 2017 Corporate Equality Index
- Fiat Chrysler Automobiles' Sustainability Supplier of the Year
- Ford Green Brand Pillar Award

Sustainable innovations



Ice-release aircraft coating

By helping ice, insects and other substances safely slide off an airplane's wings and flight-control surfaces, our innovative ice-release aircraft coating, which is still in testing, helps prevent buildup that can create drag on the aircraft surface. This facilitates a smooth flow of air over airplane wings, which studies by NASA have shown can reduce fuel consumption by as much as 6 percent.



Rapid-performance automotive clearcoat

A new rapid-performance clearcoat for automotive refinishing reduces energy consumption without compromising the quality of the final appearance, ease of application or size of repair. Currently the fastest clearcoat available in the European market, the coating requires only five minutes to bake.



DOMALUX® Classic Silver floor lacquer

Available in Europe, our *Domalux* Classic Silver floor lacquer contains a polyurethane resin that is manufactured using recycled polyethylene terephthalate (PET) plastic. Production of the lacquer consumes approximately 15 metric tons of recycled PET annually.



Aerospace solar reflective coating

A PPG coatings technology is helping commercial aircraft save energy on air conditioning by allowing solar heat to pass through topcoat pigments to a white primer coat that reflects the heat away from the aircraft—just like an eggplant prevents its dark skin from getting so hot that the white interior is damaged. The skin of an aircraft painted with the system remains as much as 25 degrees F (14 degrees C) cooler, while interior cabin temperatures are reduced five to seven degrees F.



HOBA™ PURAIR™ packaging coating

The *HOBA Purair* packaging coating is an innovative Bisphenol A non-intent powder liner for the internal protection of aluminum aerosol cans. The product contains no solvent and helps brand owners and can makers meet environmental and sustainable technology goals, such as reducing VOC emissions, minimizing their carbon dioxide footprint and providing high utilization and recycling capability.



enVie bio-based wall paints

enVie bio-based wall paints use a renewable vegetable binder and no petrochemical resins. To preserve natural resources, the paint is available in a recyclable 0.5 liter (one pint) metal can. enVie wall paints have very low VOC emissions and are rated A+ for indoor air quality in the French classification.



PERFORMALOC™ advanced productivity coatings

Featuring a proprietary combination of low-volatile organic compound resins that cure fast and hard, *Performaloc* advanced productivity coatings eliminate the need for baking or force-drying metal parts. The coatings can reduce energy costs, increase production throughput and yield lower labor costs for original equipment manufacturers that coat metal parts.



NUTRISHIELD™ SOLISTA™ internal protective spray coatings

Nutrishield Solista internal protective spray coatings were the first Bisphenol A non-intent (with no BPA intentionally added) high-performance solutions for the food-can industry approved to pack various food products, including ready meals, soups and infant foods.