



### Treatments

Restek's Performance Coatings (RPC) Division specializes in innovative surface treatments for steel, stainless steel, alloys, glass, ceramics, and other materials. Restek surface treatments are chemically inert, ultra pure, and corrosion resistant, making them ideal for analytical uses.

The Restek Performance Coatings family of surface treatments includes:

- **Silcosteel®**—A general purpose passivation layer for steel and stainless steel. US Patent 6,511,760.
- **Siltek®**—The ultimate passivation of treated surfaces, from glass to high nickel alloys of steel. US Patent 6,444,326.
- **Silcosteel®-AC**—Dramatically reduces carbon buildup on stainless steel components. US Patent 6,444,326.
- **Silcosteel®-CR**—A corrosion resistant layer that increases the lifetime of system components in acidic environments containing hydrochloric acid, nitric acid, or seawater. US Patent 7,070,833.
- **Silcosteel®-UHV**—Greatly reduces outgassing from components of ultra-high vacuum systems. US Patent 7,070,833.
- **Sulfinert®**—A required treatment for metal components when analyzing for parts-per-billion levels of organo-sulfur compounds. US Patent 6,444,326.

### Restek Performance Coatings have provided solutions to:

- **Laboratories** save thousands in needless retests caused by high surface activity through the use of Siltek® treated analytical flow paths.
- **Refiners** save millions yearly by detecting plant upsets sooner with Restek treated sampling systems.
- **Natural gas producers** are able to precisely assess feed stock quality with Sulfinert® sample cylinders.
- **Semiconductor manufacturers** eliminate yield-robbing contamination with Silcosteel®-CR treated process systems.
- **Chemical and petrochemical plants** save down time and maintenance costs by reducing corrosion in process systems treated with Silcosteel®-CR.
- **Research and semiconductor operations** improve throughput by speeding pump-down rates in vacuum processes, using Silcosteel®-UHV treatment.
- **NASA** has improved analytical instrument durability and sensitivity by treating analytical pathways with Silcosteel® coating.
- **Power plants** nationwide are able to cost effectively detect mandated mercury emissions, using Siltek® treated systems.

To learn how Restek Performance Coatings can meet your process or materials challenge, contact our technical service group at 800-356-1688, ext. 4, or contact your Restek representative.

For a free sample, visit [www.restekcoatings.com/sample](http://www.restekcoatings.com/sample)



1985

Paul Silvis opened Restek for business in one room of an elementary-school-turned-business incubator.



1987

Restek invents Silcosteel® coating and successfully applies it to instruments for the analytical industry.



1993

Restek develops an approach for treating both the outside and inside of mass spectrometer components.



1998

Restek is awarded the first of several patents for surface treatments.



1999

Silcosteel®-treated air monitoring system components installed in the space shuttle Discovery.