

Imagine. Glass that takes you into the future.

**Introducing Certincoat.**  
**Glass that's as ready for tomorrow as you are.**

Hard coat or soft coat—which Low-E technology can assure you a brighter future? With the new Certincoat® On-line CVD System, you'll be able to meet the demands of tomorrow's tougher energy codes with hard coat Low-E coatings that are as durable, versatile, and transportable as conventional flat glass. That are suitable for either single or double pane installations.

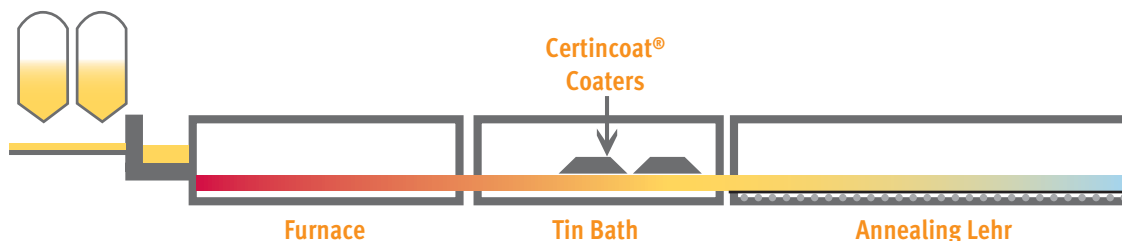
And that offer the same shelf life and storage flexibility as uncoated glass. All from a turnkey system that can be installed at a lower cost than sputtering. Don't let tomorrow find you locked into yesterday's technology. Discover Certincoat® today—the world's first proven turnkey on-line CVD application system. For more information about the Certincoat® system, visit [www.certincoat.com](http://www.certincoat.com) or call Clem McKown at (610) 878-6596.



# Certincoat®: Your best choice in Low-E technology – now and in the future.

Providing solutions to the glass industry for over 20 years, from the hot-end coating system that transformed the bottle industry to our new Opticoat™ coating technology that is revolutionizing returnables, Arkema leads the market in glass coatings technology. Our Certincoat® On-Line CVD System brings the same experience and expertise that transformed the bottle industry to flat glass manufacturing.

The Certincoat® On-Line CVD System is a pyrolytic coating technology designed to produce hard coat Low-E and solar-selective Sun E™ coated glass. The Certincoat® CVD System consists of two coaters, chemical processing systems, emissions control, and process control systems. Integrated into the glass manufacturing process, the Certincoat® coaters are located within the float bath chamber.



In the chemical vapor deposition (CVD) process, vapor directed to the glass reacts onto the hot glass surface (~650°C) to form a ceramic coating. Since the coating is covalently bonded to the glass surface, the coating has outstanding durability. Glass with Certincoat® Low-E or Sun E™ coatings can be handled, stored, and transported like clear glass. Exceptional durability minimizes yield loss, eliminates costly edge-deletion during IGU manufacture, allows tempering and bending of coated glass, and makes handling easy for downstream fabricators. Glass coated with Certincoat® Low-E or Sun E™ coating is cost-effective and energy-efficient for single-pane glazing, even replacement or retrofit storm windows.

A turnkey technology package, the Certincoat On-Line CVD System includes:

- Technology licenses
- Custom engineering
- System installation and commissioning
- Ongoing technical support
- Market development
- Chemistry supply

## Line Characteristics

The Certincoat CVD application system can be adapted to accommodate a range of tank sizes, line speeds and ribbon widths. Typical line characteristics are:

- Furnace Capacity: 500 mt/day
- Glass Thickness: 3-8 mm
- Gross Ribbon Width: 3600 mm

## Coated glass specifications

	Low E	Sun E™
Hemispherical Emissivity	0.16	0.17
Sheet Resistance	17 ohms/sq.	15 ohms/sq.
Visible Transmission	83%	49%
Haze	0.8%	<1%
Uniformity	Per ASTM 1376-97	Per ASTM 1376-97

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See MSDS for Health & Safety Considerations.

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