



 **SIERRA**
COATING TECHNOLOGIES LLC



Laminating Trends and Capabilities

Guide to Laminating Trends and Capabilities

Lamination is the process of combining two or more substrates with a specific bonding agent. Through this process, manufacturers can incorporate the benefits of each substrate into a single, structurally enhanced product. The combinations of adhesives and substrates are seemingly endless, as are the industrial applications for laminated services.

The trend of using lamination as a protective barrier for products has been popular for several years. Lamination can help defend against water, grease, oil, and others contaminants, which is particularly advantageous to those in the food & beverage industry. Protective laminates keep impurities away from foods, ensuring that customers receive the freshest possible products.



In addition to protective barriers, laminations can also impede the transmission of light. Different light barrier coatings are applied to products such as playing and trading cards and various double-sided advertisements; these coatings can also be applied to solar energy products. The popularity of these applications has encouraged manufacturers to rely on web lamination, which can improve the protective qualities and overall aesthetics of the substrates used.



Our Capabilities and Equipment

Sierra Coating utilizes the most state-of-the-art equipment to suit any laminating or coating needs. Our machines are capable of laminating multiple layers of similar or different substrates; these multi-layered products possess enhanced durability, and we are capable of manufacturing products with thicknesses ranging from 0.5 mil to 40 pt.

Wide Web Machines

Two 62" wide web coater/laminator machines specially designed for low to high coating weights (from 1 lb. per 3,000 sq. ft.).

These machines can handle various raw material sizes: 15" to 62" of roll stock, up to 60" diameters (on and off), and 3" to 12" cores (on and off).

Coating methods include gravure, direct reverse gravure, and offset gravure, slot die, pan with trailing blade and roll coating, one color offset print, and offset pattern.

Hot Melt Coater/Laminator

A 47" wide machine designed for low to medium coating weights (in regards to hot melt barrier and adhesives). Coating method is offset gravure; production capabilities include a 15" to 47" raw roll stock width, up to 50" outside diameter rolls (on and off), and 3" to 12" cores (on and off).

This machine has a thermoplastic melting point of 300°F (149°C) and viscosity range of 500 cps to 5,000 cps (at operating temperatures). Converting capabilities include: slitting and rewinding, center winds, and contracted slitting of narrow widths. Contract sheeting and printing is also available.

Our capabilities include various coatings and laminations that can be applied to diverse substrates.



Coatings & Laminations

- Rewetable
- Dry & PSA Adhesives
- Cohesive Materials
- Silicone
- Anti-skid
- FDA Approved
- Pressure Sensitive
- Cold Seal
- Removable
- Ink Jet
- Digital Print

Substrates We Use

- Paper
- Linerboard
- Recycled
- Non-woven
- Duplex
- Plastic & Thermoplastic
- Foil
- Fiberglass Duplex
- Film (Metalized and Non-metalized)
- Card & Cover Stock



The Quality of Sierra Coating

Our team of engineers constantly employs good manufacturing practices; Sierra Coating's quality systems are ISO, FDA, and NSF compliant. We ensure the highest levels of sanitation through pest and rodent control, and superior product design and development.

Sierra Coating's quality standards have contributed to the success of several applications, such as those found in the food and beverage, consumer products, and packing industries.



