



SPECIALTY COATING SYSTEMS™

SCS Precisioncoat V

Conformal Coating

Conformal coatings are the first line of defense for your product and your reputation. The SCS Precisioncoat V provides more than a dependable layer of protection, it's a total system solution that ensures accuracy, repeatability and high throughput for a wide range of automated material applications.

Industries and Applications

SCS offers the most accurate and dependable conformal coating system for any industrial application where protection from dust, chemicals, moisture, shock or

temperature extremes is key. The Precisioncoat applies materials to a variety of substrates (e.g., LED and solar panels, circuit boards, sensors, etc.) across industries, including:

- Industrial electronics
- Consumer electronics
- Military
- Aerospace
- Automotive
- Maritime
- Power management devices
- Medical electronics
- Renewable energy
- LED lighting
- Solar

Compatible Materials

No matter what material you're working with, the Precisioncoat's proprietary Windows®-based software gives you total control over the coating process, ensuring consistent application. The Precisioncoat is compatible with a variety of materials, including:

- Acrylics
- Silicones
- Epoxies
- Urethanes



SCS Precisioncoat V

In a competitive environment, you have to be fast, but you also have to be accurate. The SCS Precisioncoat gives you both.



The Precisioncoat Advantage

In a competitive environment, you have to be fast, but you also have to be accurate. The SCS Precisioncoat gives you both. Its conformal coating valves move smoothly along the direct-drive, three-axis system, with an option to add fourth and fifth axes for tilt and rotation capabilities. The system's multi-valve technology allows for the application of dots, lines, fills, glob tops and spray coat areas with the following capabilities:

- Two-part mixing dispense
- Dot dispense
- Jetting
- Radial material application
- One and two part metering
- Flow coating
- Low to medium speed solder paste dispensing
- Atomizing spray
- Non-atomized filming

But what truly sets the Precisioncoat apart is its proprietary Windows-based software, with which you can customize each program based on material and pattern. Users achieve consistent application with a high degree of accuracy and repeatability. And with its offline-programming feature, downtime is kept to a minimum.

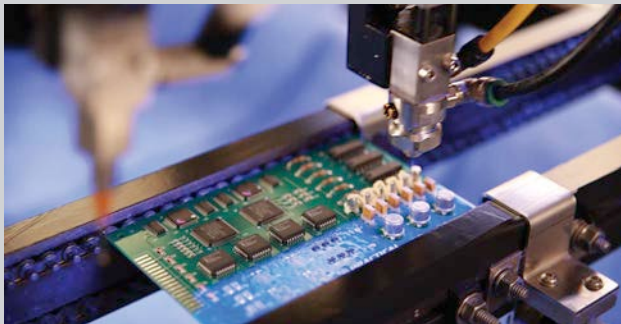
Key features and benefits

- Ease of programming
- High accuracy and repeatability
- High throughput
- Multi-valve technology
- Profile sharing between multiple coating systems
- SMEMA transfer protocols
- Safety interlocks

Conformal Coatings Guide¹

	Acrylic	Urethane	Epoxy	Silicone
Component Stress	High	High	High	Low
Cost	Low	Low	Medium	High
Repair	Moderate	Difficult	Difficult	Easy
Humidity resistance	Good	Excellent	Good	Excellent
Solvent resistance	Excellent	Good	Excellent	Good
Corrosives resistance	Good	Excellent	Excellent	Good
Abrasion resistance	Moderate	Excellent	Excellent	Moderate
Thermal cycling	Moderate	Good	Good	Excellent
Dielectric properties	Good	Excellent	Excellent	Fair
Transparency	High	Low	Low	Low

1. IFT009E, July 2012, BCC Research, www.bccresearch.com



Optional features

- 5 axes programmable tilt and rotate
- Vision system
- Coating flow meter
- Needle calibration system
- Programmable atomization pressure
- Programmable coating pot pressure
- Material temperature control system
- Laser height mapping
- Valve on/off during continuous motion

For a full list of available features and options, contact SCS.

The SCS Difference

Specialty Coatings Systems is a leader in the industry with not only the equipment needed for the best in processing and control, but a knowledgeable technical staff, ready to support customers with application support, custom designs, system demonstrations and world class technical support. We work closely with customers to create a custom solution for their specific application, drawing on a variety of features and options to meet any requirement.

SCS Precisioncoat V Specifications

Minimum substrate size	2 x 2 in / 5.08 x 5.08 cm
Maximum substrate size	20 x 20 in / 50.8 x 50.8 cm
Maximum substrate height	5 in / 12.7 cm above and below pass line
Electrical	120 VAC, 6A; 230 VAC, 3.5A
Exhaust requirements	150 CFM exhaust with 6 in / 15 cm duct
Air supply	10 CFM @ 80 psi dry air [some moisture-sensitive materials may require use of nitrogen instead of clean, dry air]
System dimensions (W x D x H)	39.0 x 49.5 x 67 in / 99.1 x 125.7 x 170.2 cm
Weight, skidded	820 lb / 372 kg



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