



PPG Industries
Semco® Packaging &
Application Systems

Custom Resin Packaging Solutions

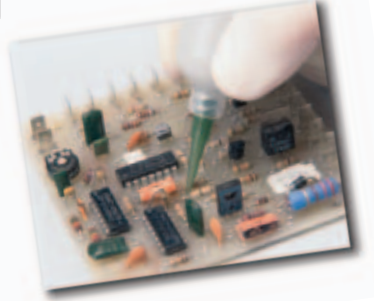


Where Smart Solutions Take Flight™

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Get on with running your business... not managing your chemicals

Think of us as your own materials department. We can provide inventory control, management systems, bar coding and customized labeling to save time and money. That allows you to get on with running your business... not managing your chemicals.



We work with you to help improve operating efficiency with specialist materials, packaging and application equipment which will make your job easier and reduce on-site health and safety concerns. You receive prompt, accurate deliveries that are right the first time.

Our technical support specialists can provide information or troubleshooting for materials, packaging and methods of application...FREE. Many products can be supplied pre-mixed and frozen in your choice of syringe, cartridge, plastic or foil cup.

To complement the variety of packaging options, we have a cost-effective range of manual and semi-automatic dispensing systems. From manual ratchet guns for syringes and cartridges, pneumatic guns for side-by-side syringe and cartridge dispensing, to electro-pneumatic dispensing systems for precise fluid application, we can offer a solution for most requirements.

The Semkit® Package

The Semkit® package is a ready-to-use disposable cartridge-based system that stores, mixes and applies multiple component adhesives, sealants, encapsulants and many other materials. This system is ideal for epoxies, polysulfides, polyurethanes, silicones and other materials which require dynamic mixing. Typical industry sectors where Semkit® packages have enjoyed success include aerospace, construction, marine, transportation and electronics.

The Semkit® package assures accurate proportioning of the materials since the premeasured components are stored in different compartments within the cartridge. Your materials can be packaged in Semkit® packages with capacities of 1oz. (30cc) to 20oz. (610cc). Semi-automatic and fully automatic mixing equipment is also available.



Injection style Semkit® packages for multi-component adhesives and sealants



Barrier style Semkit® packages for structural adhesives

No Mess. No Waste. No Problem.

Creative, Clean, Safe and Accurate Packaging and Dispensing Solutions



Global service and support have always been key to our partnerships with customers. As the leading supplier of coatings and sealants to the aerospace industry, we have gained considerable experience in providing packaging and dispensing solutions for difficult-to-handle materials.

This expertise can be fully carried over into other industry sectors facing similar challenges. Our unique and innovative packaging systems provide accurate dispensing for most industrial fluids.

Our services include providing technical staff to advise you on your packaging needs and in preparing samples of available options. From air powered and manual syringe assemblies, sachet packs, cartridges, cans and tubes for single part materials to Semkit® packages, Sempak™ systems, Hinge-Paks for multi-component materials, or virtually any package that is essential to your operations.

We provide packaging for epoxies, silicones, urethanes, acrylics, polysulfides and many other materials to eliminate waste, improve productivity, reduce operator exposure and minimize hazardous disposal costs.

What is an ASC?

Our network of Application Support Centers (ASCs) are key to providing one-source worldwide customer support. With centers in North America, Europe, the United Arab Emirates, South Africa and the Asia-Pacific region, we are conveniently located to offer global capability from a regional base that understands your specific packaging needs.



The Sempak™ Side-by-Side System

Many modern assembly and sealing materials lend themselves to side-by-side or Sempak™ cartridge packaging utilizing a static or motionless mixer. This mixing nozzle blends only the materials needed for the application at hand, permits trouble-free intermittent use, reduces waste and cuts costs.

Sempak™ cartridges are available in capacities of 50ml, 200ml and 400ml and will accommodate mix ratios of 1:1, 2:1, 4:1, and 10:1. To complete the package, a wide range of mixers and a choice of manual or pneumatic dispensing guns are available.



Sempak™ side-by-side cartridges for materials in 1:1, 2:1, 4:1, and 10:1 mix ratios



Larger size cartridges available in a variety of mix ratios

Packaging solutions for coatings, inks, fluxes and other low viscosity materials



We have several methods of handling single and two-component low viscosity materials used for touch-up, repair and rework in critical areas. The Sempen® applicator is designed for the convenient storage, mixing and application of two-part topcoats and primers. The materials are separated by a barrier that is displaced prior to use to allow thorough mixing. The spring loaded valve provides excellent material flow control. The Sempen® applicator can hold up to 10cc of material.

The Insert Kit is a low cost system for two-part materials where the catalyst is premeasured and stored in an inner bottle. After introduction to the base material in the outer container, the product is easily mixed for application by brush. Several bottles, vials and other packages are available for coatings materials to be supplied in a pre-mixed and frozen configuration.



Sempen® applicator



Squeeze bottles for low viscosity liquids



Insert kits for multi-component coatings



Hinge-Paks for 2-part adhesives/encapsulants

Packaging Solutions

Using ingenuity and creative thinking, we develop packaging solutions that offer the most benefit to our customers. You may find a solution to your particular needs from the examples here.

Semco® Packaging & Application Systems, our ISO 9001-approved division, has been recognized as a leader in chemical packaging for almost 40 years. By producing critical-tolerance injected molded parts, Semco® Packaging & Application Systems complements our specialty packaging services with unique technology.



Glass bottles for various primers, accelerators and activators



Variety of multi-purpose plastic bottles



Pre-mixed and frozen touch up kits



Tamper proof screw top jars



Metal cans for corrosive materials



Collapsible aluminum tubes

Additional Capabilities

Two other value-added services offered by our global network of Application Support Centers are pre-mixing and freezing two-part resin systems and providing specialty resin blending based on customer-designated formulas.

The pre-mixed and frozen process includes thoroughly blending two-component materials, degassing them to remove entrapped air, and then freezing the resin system in a disposable syringe or cartridge. These containers are then packed in dry ice and shipped directly to the customer's facility where they can be stored safely and conveniently in a freezer at -40°C .

For the custom blending process, PPG offers to manufacture your adhesive products based on your specific formulations and specifications. PPG then packages and provides the custom resin in a disposable package best suited for your application requirements.



Pre-mixed and frozen packages



Syringe-filled packages



2-part Hinge-Paks

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