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Sir Mix-A-Lot

Revising Plural Component Spray Systems

What is Plural Component Spray Equipment?

Plural Component (2K) Spray Equipment uses two or more coating materials that are mixed together and sprayed at the same time onto an object or surface. This process is utilized when dealing with coatings like epoxies, polyurethanes, and polyureas. The efficient use of plural component materials has enabled higher transfer efficiency and reduced waste.

CIS and MVP: Reprising and Advancing the Use of Plural Component Spray Systems

Currently the only option for meter, mixing and spraying high ratio coatings like polyester or conversion varnishes requires an electronic proportioner that requires a substantially high investment. CIS recognized the opportunity to work with MVP to develop and introduce a simple, economical mechanical proportioner configured for either air spray or air-assisted airless application of these high ratio coatings give customers a more affordable option.



MVP has a long history and established reputation for manufacturing systems focused on high-ratio mix, meter and application of MEKP (Methyl Ethyl Ketone Peroxide) catalyzed gelcoat used in the fabrication of boats, spas and other products that utilize polyester fiberglass materials. After years of consulting with CIS, MVP upgraded their existing systems to accommodate both the MEKP catalyzed polyester coatings as well as the more aggressive acid catalyst used in conversion varnishes. The addition of a fluid and air regulator system to accommodate either a low-pressure air spray or a medium pressure air-assisted airless spray gun completed the build.

The result?

MVP's ACE (Accurate Coatings Equipment) 2K System, our feature this month:

From PRNewswire

KNOXVILLE, Tenn., April 21, 2022

Magnum Venus Products (MVP), a global manufacturer of fluid movement and production solutions for industrial applications, is launching a new product, Accurate Coatings Equipment (ACE), a plural component coatings system.

Although the system is compatible with a variety of materials and applications, it was specifically designed for wood finishes and sealers used by manufacturers of cabinets, windows and doors, furniture, and other wood products. The system was uniquely designed to reduce material waste and increase production output. During trials, customers have experienced up to 15% material savings compared to traditional pressure pots. ACE will enable you to dispense an accurate material ratio every time and reduce downtime by eliminating manual mixing. ACE is configurable with floor and wall mount options to meet your production needs.



MVP is committed to developing new products and solutions to meet the needs of industrial manufacturers. "We have more than doubled our R&D budget over the last year," confirms Andrew Hedger, Senior Director of Business Development for MVP. "MVP has commercialized game-changing technology for the composites industry in the last few decades, and we are more committed now than ever to investing in the development of new resources to help our customers make better products with less waste."

"CIS supported MVP as it developed and launched ACE," says Brad Hubbard of Coast Industrial Systems (CIS), a distributor of MVP's ACE system. "They have been a forward-thinking partner who continually puts the customer's needs first."

Looking for a plural component system to meet your clients' growing needs? *Call your CIS representative today!*



▶ **ACE**
ACCURATE COATINGS EQUIPMENT

Plural component coatings system for wood finishes and sealers

ACCURATE COATINGS EQUIPMENT (ACE)

Cost-effective pneumatic mixing solution to elevate your production and improve product quality

ACE is a plural component (2K) pump system for the application of acid catalyst and polyester MEKP materials. Uniquely designed for wood finishes and sealers, the system will reduce material waste and increase production output by delivering accurate catalyzation ratios every time. ACE is configurable with floor and wall mount options to suit your production needs, and is compatible with any air-assisted airless, air spray, or HVLP spray gun.

- ▶ **Increase transfer efficiency** using air-assisted airless technology by 25% compared to hot pot HVLP methods and 35% compared to hot pot air spray methods
- ▶ **Deliver higher quality products** by eliminating over- or under-catalyzation, often not visible for weeks, causing flaking, peeling, and delamination
- ▶ **Reduce downtime** with no manual mixing and only minimal flushing required
- ▶ **Versatile** to meet your needs with catalyst ratios ranging from 2 - 4.5% and compatible with a variety of gun types



80 YEARS OF PROVEN MIX & METER TECHNOLOGY COMBINED WITH INNOVATIVE APPLICATIONS



MVP has over 80 years of experience providing trusted mixing and metering technology and solutions that make our customers' product better, safer, and more reliable. With a reputation for consistency, precision, and an unwavering commitment to customer satisfaction, MVP works every day to offer the most innovative and reliable products to the industries we serve. Contact us today to see why customers consistently rank us best-in-class for industry knowledge and customer service.



Accurate Catalyst Ratios Every Time.

Polyester and conversion varnishes are used to create a hard, durable finish when applied to all wood surfaces like furniture, cabinets, or windows and doors. Accurate mixing and pumping of the acid catalyst is key to long-term durability. The ACE system is proven to deliver accurate catalyst ratios every time, eliminating coating failures which can cause flaking, peeling, and delamination often not visible for weeks.



ACE System

Labor

No measuring or mixing materials and less time spent on maintenance to flush out hoses

Quality

ACE delivers accurate catalyst ratios every time improving part quality

Cost

Increased transfer efficiency, reduced supply costs, and labor savings leads to dramatic cost reductions

Manual Mixing

Labor

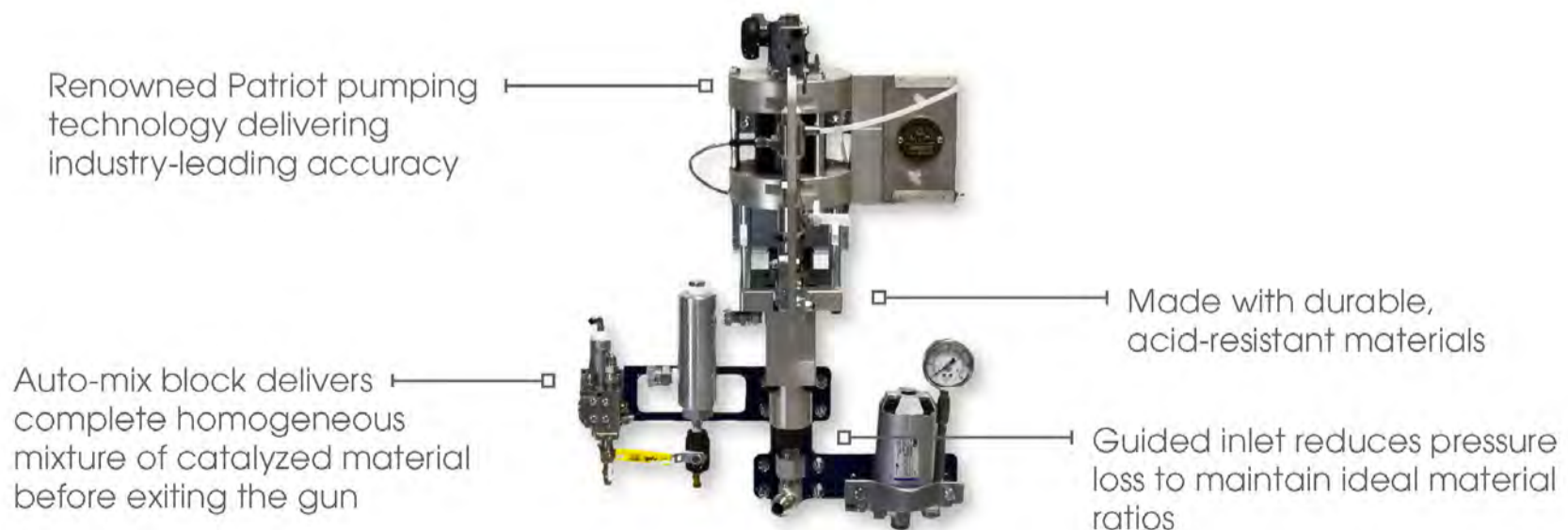
Operators spend valuable time measuring and mixing materials manually

Quality

Manual mixing leads to over-, under-, or un-catalyzed products causing costly coating failures

Cost

Higher material and labor costs combined with supply costs for cup guns, stirrers, cleaning solvent, rags, liners, strainers, gloves and more





COAST INDUSTRIAL SYSTEMS, INC.

2223 Verus Street • San Diego, California 92154



COMPANY OVERVIEW

Coast Industrial Systems, Inc. is the top supplier of painting and coating application equipment to the marine and manufacturing industries, and is proud to serve both San Diego and Mexico since 1986.

Coast Industrial Systems, Inc. always places the customer first and strives for business excellence in *all* ways. Our friendly sales and customer service staff are knowledgeable, experienced and qualified to help meet your painting or coating application requirements and we make it our mission to consistently exceed your expectations.



**Graco Top 20
High-Protective Coatings & Foam
Distributor Award Winner
2010-2021**

