



# ProMix<sup>®</sup> 2KE

Compact, Entry Level Plural Component Proportioner



PROVEN QUALITY. LEADING TECHNOLOGY.

# Simple and Flexible Proportioning

## Mix Two-Component Paints Easily and Consistently

Available in pump and metered versions for all spray technologies, ProMix® 2KE makes plural component finishing EASY.

Designed for single color, two component, in-booth applications.

### ELIMINATE EXPENSIVE REWORK

Stay on ratio within predefined tolerance limits, down to  $\pm 1\%$  with the meter version and  $\pm 2\%$  with the pump version.

Off-ratio material will not reach your product – eliminating expensive re-work.

### MAKE SERVICING A SNAP

Get complete access to all items that may need periodic service.

- Easy to service cartridge style fluid valves
- Open access to all fluid components
- Externally mounted air filters
- Ability to program maintenance reminders

### SAVE TIME AND MONEY

- Reduces waste
- Improves manufacturing processes
- Shortens drying times
- Reduces VOC's

#### KEY FEATURES

- Compact
- Flexible and easy installation
- Low flush volumes

#### KEY MATERIALS

- Solventborne epoxies and polyurethanes
- Waterborne epoxies and polyurethanes
- Acid catalyzed materials

#### KEY INDUSTRIES

- General metal
- Wood and furniture
- Farm and construction
- Truck and bus
- Aerospace
- Electronics



# Pump-Based System

The ProMix 2KE Pump-Based System is designed with reliable Merkur® pumps, is EASY to run and comes ready to spray.

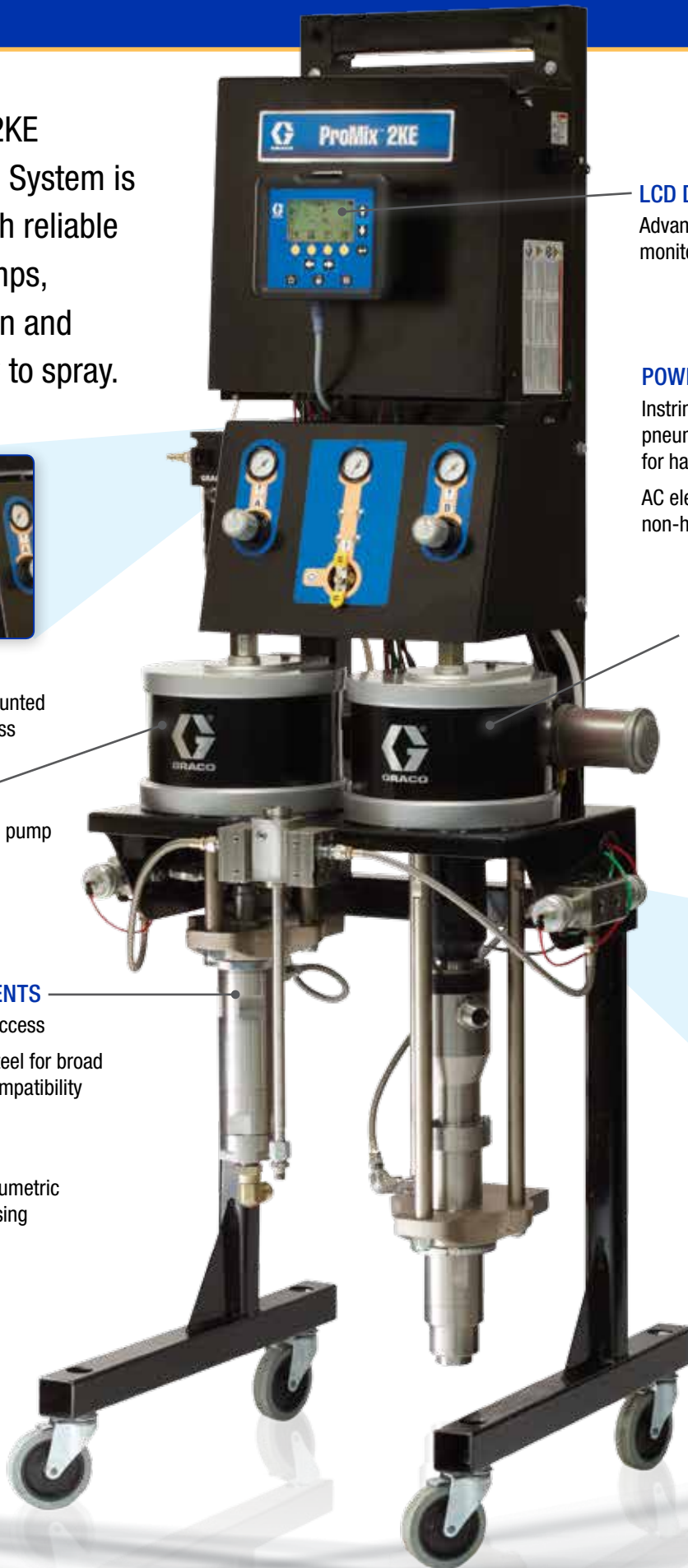


**AIR FILTER**  
Externally mounted for easy access

**SIDE A**  
Merkur 2-ball pump

**FLUID COMPONENTS**  
Simple to access  
Stainless steel for broad material compatibility

**DOSING**  
Standard Volumetric Dynamic Dosing



**LCD DISPLAY**  
Advanced reporting system monitors production

**POWER OPTIONS**  
Intrinsically safe pneumatic meter or pump for hazardous areas  
AC electric for non-hazardous areas

**SIDE B**  
Optional Merkur Bellows pump for moisture sensitive catalyst applications

**MIX RATIO**  
Up to 30:1



**FLUID VALVES**  
Easy to service cartridge style valves

**FLUSHING**  
Standard A and B side

PUMP SYSTEMS

# Easy-to-Use and Operate



***Intuitive, icon-driven LCD display*** allows you to set up, operate and monitor the system as it performs.

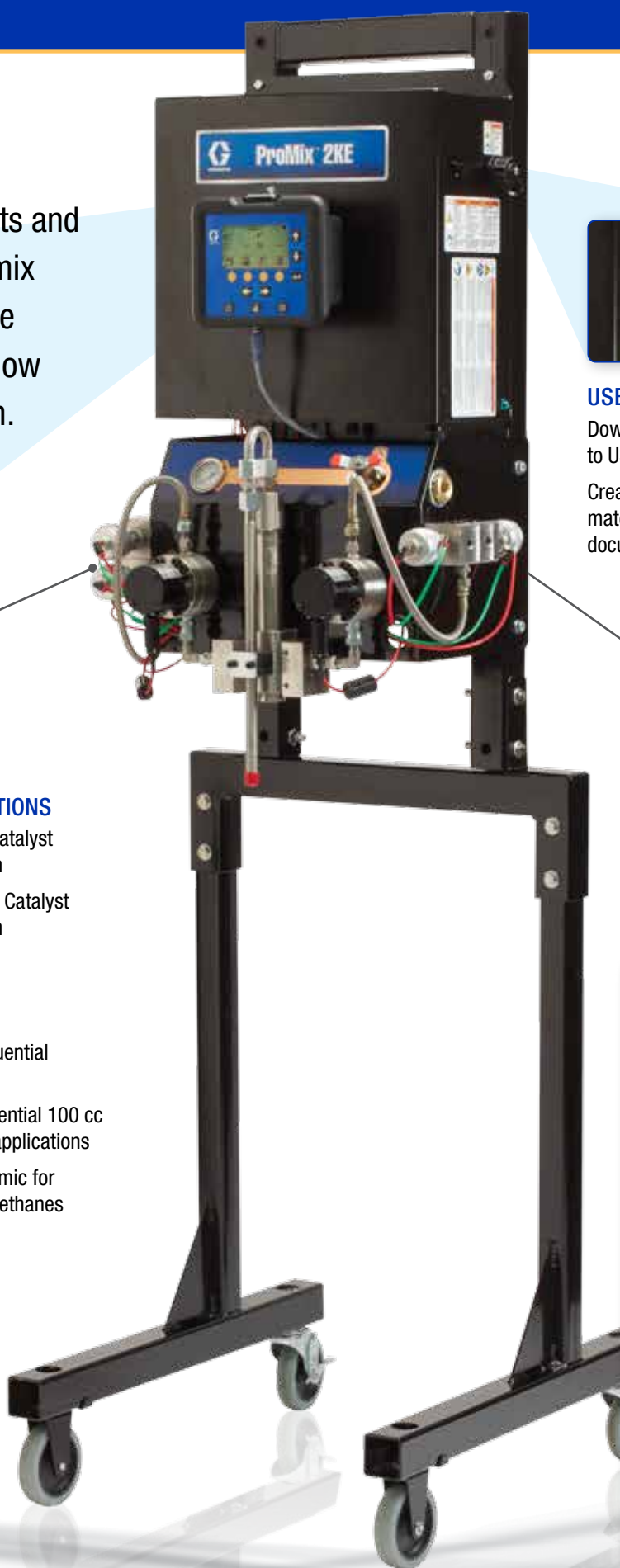


## **EASY-TO-USE DISPLAY**

- Mounts up to 10 feet away with standard cable
- Simple operation functions: standby, spray, purge and flushing
- Displays mix ratio, pot life time(s), and material flow rate
- Easy to change colors on meter units
- Material use screen for tracking costs and creating environmental reports
- Settable maintenance reminders: pump cycles, valve cycles and filter days

# Meter-Based System

Get precise fluid volume measurements and meet target mix ratios with the ProMix 2KE flow meter system.



## SIDE A

Dispense & flush valves

## CONFIGURATIONS

Single Color/Catalyst with A&B flush

3-color/Single Catalyst with A&B flush

## DOSING

Standard Sequential 50 cc Dosing

Optional Sequential 100 cc for high flow applications

Optional Dynamic for waterborne urethanes



## USB KIT

Download material usage and alarms to USB memory stick

Create a sortable spreadsheet file for material tracking and environmental documentation

## SIDE B

Dispense & flush valves

## FLUID PRESSURE

Maximum 3000 psi (206 bar) fluid pressure

## Optional Gun Flush Box for Manual Spray Guns



Automatically flush the exact amount of solvent required, reducing waste and disposal costs

Designed to handle most waterborne and solventborne materials

METER SYSTEMS

# Technical Specifications

Mix ratio range	
For pump system	0.1:1-30:1 (in 0.1 increments)
For meter system	0.1:1-30:1 (in 0.1 increments)
Ratio tolerance range	
For pump system	up to ±2.0%
For meter system	up to ±1%
Flow rates	
Minimum	0.02 qt/min (0.02 liter/min)*
Maximum	1 gal/min <sup>3</sup> (3.8 liter/min <sup>3</sup> )
Fluid viscosity range	50-20,000 cps (heavier viscosities can be mixed with use of optional heaters, heated hoses, and hardware)
Fluid filtration	100 mesh (149 micron) recommended
Maximum fluid working pressure	
Meter-based systems	3000 psi (206 bar, 20.6 MPa)* (*Up to 4000 psi with high pressure hose kit)
Air supply pressure range	60-110 psi (4-7.5 bar, 0.4-0.75 MPa, )
Ambient temperature range	
Operating	2 to 104°F (0 to 40°C)
Storage	30 to 160°F (-1 to 71°C)
External power supply requirements	85-250 Vac, 50/60 Hz, 2 amps maximum draw 15 amp maximum circuit breaker required 8 to 14 AWG power supply wire gauge
Environmental conditions rating	indoor/outdoor
Altitude	up to 2.4 miles (4000 meters)
Maximum relative humidity	.99% up to 104°F (40°C)
Pollution degree	(1)
Installation category	(2)
Sound pressure	98 dBA at 100 psi (7 bar, 0.7 MPa)
Wetted parts	
Pumps	303, & 17-4PH grades stainless steel, zinc and nickel plating, ductile iron, tungsten carbide, PTFE,
Dispense Valves and mix manifold	303, & 17-4PH grades stainless steel, PTFE perfluoroelastomer, tungsten carbide, with nickel binder
PC Communications	USB 2.0

PUMP RATIO	3.2:1	23:1	30:1	35:1	45:1
Fluid Flow	2.0 gpm (7.6 lpm)	1.6 gpm (6.0 lpm)	1.2 gpm (4.5 lpm)	1.6 gpm (6.0 lpm)	0.8 gpm (3.0 lpm)
Volume per cycle	4.3 oz (125 cc)	3.4 oz (100 cc)	2.6 oz (75 cc)	3.4 oz (100 cc)	1.7 oz (50 cc)
Max fluid outlet pressure	320 psi (2.2 MPa, 17 bar)	2300 psi (16 MPa, 158 bar)	3000 psi (21 MPa, 206 bar)	3500 psi (24 MPa, 234 bar)	4000 psi (28 MPa, 280 bar)
Air Motor Displacement	400 cc	1200 cc	1200 cc	1800 cc	1200 cc
Air Consumption	12 scfm at 1 gpm (0.34 m3/min at 3.8 lpm)	34 scfm at 1 gpm (0.96 m3/min at 3.8 lpm)	34 scfm at 1 gpm (0.96 m3/min at 3.8 lpm)	54.7 scfm at 1 gpm (1.53 m3/min at 3.8 lpm)	34 scfm at 1 gpm (0.96 m3/min at 3.8 lpm)

## Ordering Information

		LOW PRESSURE OR HIGH PRESSURE		LOW PRESSURE		HIGH PRESSURE				
POWER	Reporting	Meter 1 Color	Meter 3 Color	3.2:1 Air Spray	3.2:1 Air Spray Bellows	23:1 Air Assist	23:1 Air Assist Bellows	30:1 Air Assist	35:1 Air Assist Bellows	45:1 Airless
Electric Non-IS	Screen	24F080	24F081	24F088	24F092	24F089	24F093	24F090	24F094	24F091
	USB	24F082	24F083	24F095	24F099	24F096	24F100	24F097	24F101	24F098
Air Powered Alternator, IS	Screen	24F084	24F085	24F102	24F106	24F103	24F107	24F104	24F108	24F105
	USB	24F086	24F087	24F109	24F113	24F110	24F114	24F111	24F115	24F112

# ProMix 2KE Accessories

## Meter Kits

Contains one flow meter, cable and hardware

24M261 1/4" Coriolis Flow Meter  
 16D329 S3000 (Solvent) Flow Meter  
 244256 High Pressure Hose Kit (4000 psi)

## Dosing Kits

Contains fluid manifold hardware

15V021 50 cc Sequential Dosing  
 24B618 100 cc Sequential Dosing  
 15U955 0 cc Dynamic Dosing

## Gun Flush Box Gun Holders

198787 Graco Pro Xs2™  
 198405 Graco Pro Xs3™, Pro Xs4™  
 196768 Graco PRO 3500, 3500hc, 4500  
 15T646 Graco AirPro™ Air Spray  
 196769 Graco Delta Air Spray  
 196770 Graco Alpha  
 196771 Graco Alpha Plus, Alpha Plus RAC®  
 15G093 Graco G15  
 15G346 Graco G40, G40 RAC

## Pump Accessories

256410 Hopper 1.5 gal (5 l) polyethylene  
 206995 TSL™  
 243340 Pail Cover with Agitator  
 Use to agitate material in a 5 gal (18.9 l) pail  
 222121 Fluid Regulator, Stainless Steel  
 Maximum working pressure: 1500 psi (103 bar, 10.3 MPa)  
 Regulator range: 150-1200 psi (10-28 bar, 1-8.2 MPa)  
 24A587 Pump Outlet Fluid Filter, Stainless Steel  
 60 mesh (250 micron), 5000 psi (350 bar, 25 MPa)  
 256425 Fluid Filter Drain Valve, Stainless Steel  
 5000 psi (350 bar, 35 MPa)  
 224458 224458 Replacement Filter Screen Element,  
 3-pack elements, 30 mesh, SST  
 224459 Replacement Filter Screen Element  
 3-pack elements, 60 mesh, SST  
 24A954 55 gal Drum Suction Hose and Strainer, 3/4 in fluid inlet  
 24B598 55 gal Drum Suction Hose and Strainer, 1 in fluid inlet  
 24B424 PTFE lined suction hose for wall fluid mount pump, 3/4 in inlet  
 24B425 PTFE lined suction hose for wall fluid mount pump, 1 in inlet  
 256423 Suction Hose, 3/4 in inlet

## Miscellaneous Kits

24F301 Pump Stand Kit  
 24G611 Meter Stand Kit  
 24H253 USB Kit  
 16G351 Electric Power Kit  
 16G353 Alternator Power Kit  
 15V267 Calibration Kit  
 24H255 2 Color Expansion Kit  
 123280 50 ft CAN Cable - IS  
 15U533 50 ft CAN Cable - non IS  
 15D909 5 Micron Air Filter Replacement  
 15D890 40 Micron Air Filter Replacement  
 248433 5 and 40 Micron Filter Kit  
 24H256 (Pump Sys) High Pressure Hose Kit  
 15W034 Alarm Light  
 15V826 Gun Flush Box Kit  
 15T632 Airflow Switch Kit  
 15V077 Kit, Valve, Acid  
 24G821 Paint Shield, 10 pack

## Solvent Pumps

233488 Triton Pump  
 G15W09 Merkur pump, 15:1

## RETURN-ON-INVESTMENT (ROI)

### Example

See how much you can save annually by converting from hand mixing or conventional mechanical proportioning methods to Graco's ProMix 2KE.

### Compare and Save!

With a user-friendly controller and advanced potlife controls, ProMix 2KE proportioning system offers substantial cost and material savings.

If you're currently hand mixing or using a mechanical proportioner, you may be spending more than you should on wasted material, extra labor and off-ratio re-work costs. The Graco ProMix 2KE reduces these expenses and provides a quick ROI.

ROI Information	Current Method	ProMix 2KE	Your Estimate
<b>Material Cost per Gallon</b>			
Price per gallon/liter	\$100	\$100	<b>A</b>
Price per gallon/liter of flushing solvent	\$10	\$10	<b>B</b>
Number of days per year	250	250	<b>C</b>
Labor rate per hour	\$30	\$30	<b>D</b>
<b>Material Usage</b>			
Number of batches/color changes per day	3	1	<b>E</b>
Unused paint per batch	0.5 gal	0.05 gal	<b>F</b>
Solvent used per batch	1.0 gal	0.25 gal	<b>G</b>
Preparation and cleanup time per batch	0.5 hr	0.05 hr	<b>H</b>
<b>Analysis</b>			
Total annual cost of wasted paint (A x F x C x E)	\$37,500	\$1,250	<b>I</b>
Total annual cost of wasted solvent (B x G x C x E)	\$7,500	\$625	<b>J</b>
Total annual labor cost (H x E x C x D)	\$11,250	\$375	<b>K</b>
<b>Total Cost (I + J + K)</b>	<b>\$56,250</b>	<b>\$2,250</b>	
<b>Payback</b>			
Average cost of ProMix 2KE		\$15,000	<b>L</b>
<b>Total Annual ProMix 2KE Savings</b>		<b>\$56,250 - \$2,250 = \$54,750</b>	<b>M</b>
Payback [(L/M) x 12 months]		3.3 months	



## ABOUT GRACO

### PROVEN QUALITY. LEADING TECHNOLOGY.

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

## GRACO LOCATIONS

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## SALES/ DISTRIBUTION/ SERVICE

Call today for product information or to request a demonstration.

**877-84GRACO (1-877-844-7226)** or visit us at [www.graco.com](http://www.graco.com).

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