ProMix® 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 ±1% with the meter version and ±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.

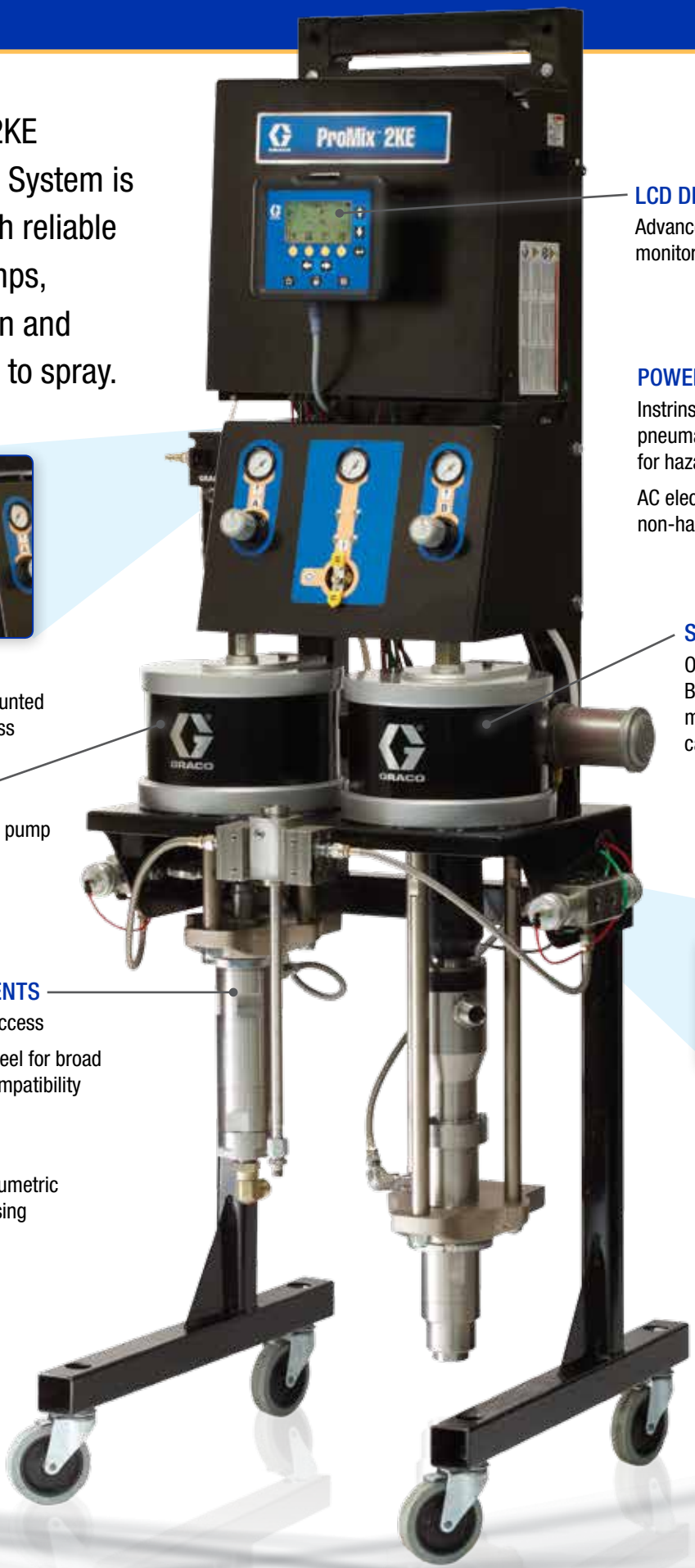
AIR FILTER
Externally mounted for easy access

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
Instrinsically 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

Easy-to-Use and Operate

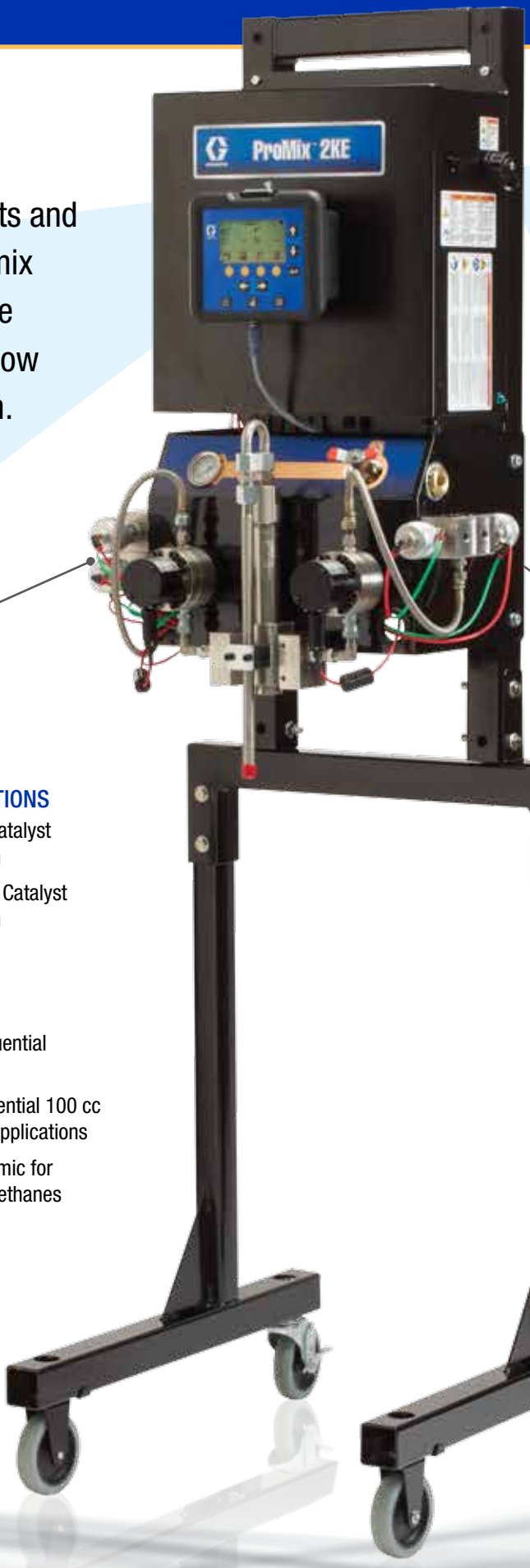
Intuitive, icon-driven LCD display allows you to set up, operate and monitor the system as it performs.

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.



USB KIT

Download material usage and alarms to USB memory stick

Create a sortable spreadsheet file for material tracking and environmental documentation

SIDE A

Dispense & flush valves

SIDE B

Dispense & flush valves

CONFIGURATIONS

Single Color/Catalyst with A&B flush

3-color/Single Catalyst with A&B flush

FLUID PRESSURE

Maximum 3000 psi (206 bar) fluid pressure

DOSING

Standard Sequential 50 cc Dosing

Optional Sequential 100 cc for high flow applications

Optional Dynamic for waterborne urethanes

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

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^3 (3.8 liter/min^3)

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 104ºF (0 to 40ºC)
- Storage . . . . . 30 to 160ºF (–1 to 71ºC)

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 104ºF (40ºC)

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