



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 colour (Pump version) and single or 3 colour (Meter version), 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.

EASY TO MAINTAIN

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



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



USB KIT
Download material usage and alarms to USB memory stick
Create a sortable spreadsheet file for material tracking and environmental documentation

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

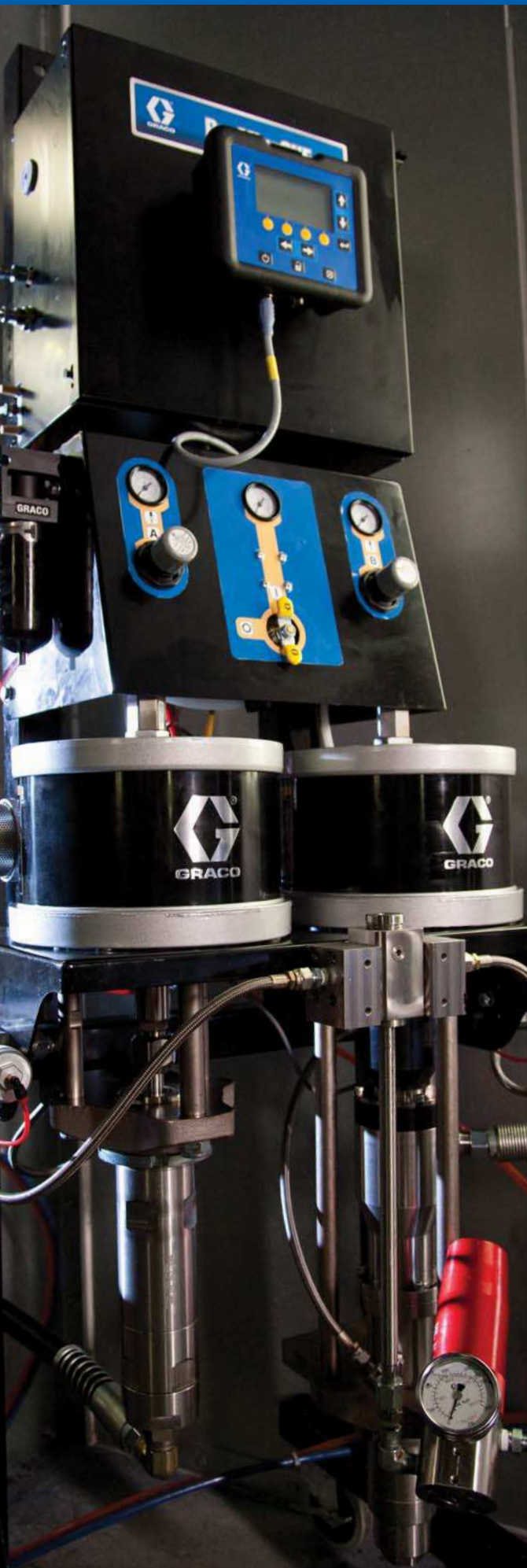


FLUID VALVES
Easy to service cartridge style valves

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.

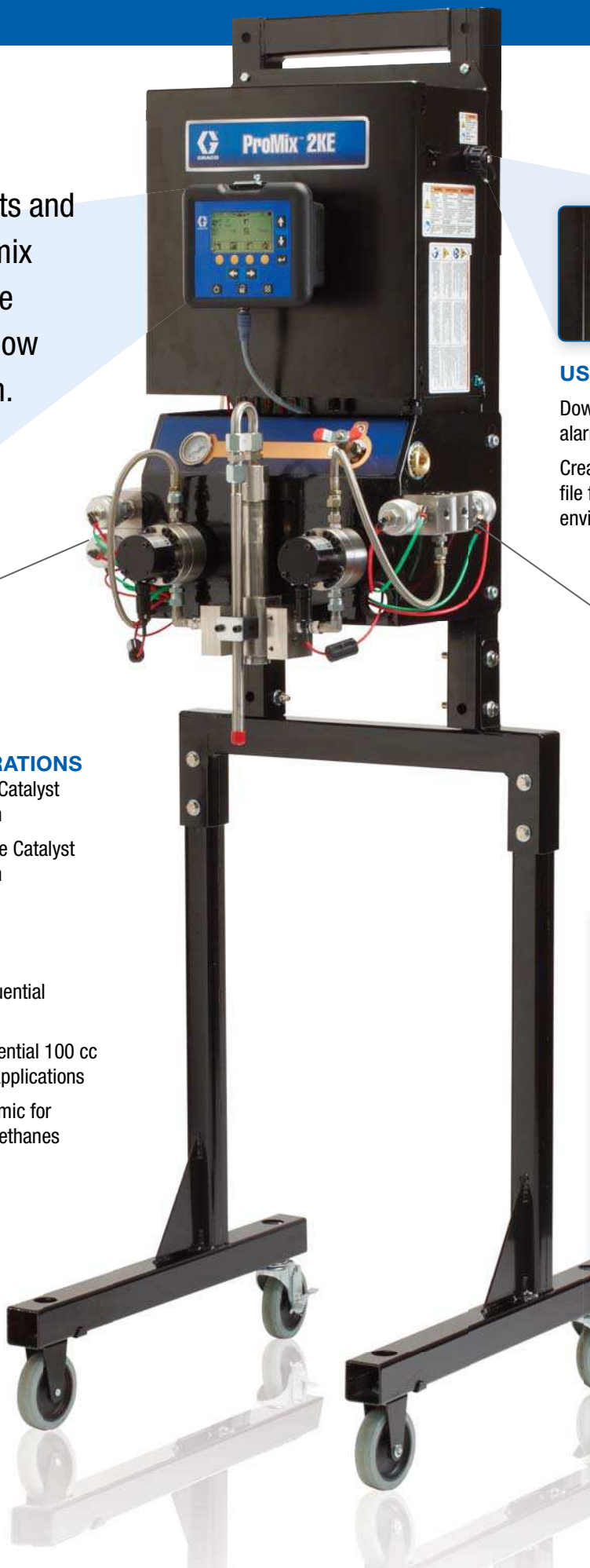


EASY-TO-USE DISPLAY

- Mounts up to 3 m 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 colours 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 Colour/Catalyst with A&B flush

3-colour/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 206 bar (3000 psi) 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 liter/min (0.005 gal/min)*
Maximum	3.8 liter/min (1 gal/min)
Fluid viscosity range	50-20,000 cps (heavier viscosities can be mixed with use of optional heaters, heated hoses, and hardware)
Fluid filtration	149 micron (100 mesh) recommended
Maximum fluid working pressure	
Meter-based systems	206 bar (20.6 MPa, 3000 psi)* (*Up to 275 bar with high pressure hose kit)
Air supply pressure range	4-7.5 bar (0.4-0.75 MPa, 60-110 psi)
Ambient temperature range	
Operating	0 to 40°C (32 to 104°F)
Storage	-1 to 71°C (30 to 160°F)
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 4000 meters (2.4 miles)
Maximum relative humidity	99% up to 40°C (104°F)
Pollution degree	(1)
Installation category	(2)
Sound pressure	.98 dBA at 7 bar (0.7 MPa, 100 psi)
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
Instruction Manuals	A0868B, 3A0869B, 3A0870B

PUMP RATIO	3:1	23:1	30:1	35:1	45:1
Fluid Flow	7.6 l/m (2.0 gpm)	6.0 l/m (1.6 gpm)	4.5 l/m (1.2 gpm)	6.0 l/m (1.6 gpm)	3.0 l/m (0.8 gpm)
Volume per cycle	125 cc (4.3 oz)	100 cc (3.4 oz)	75 cc (2.6 oz)	100 cc (3.4 oz)	50 cc (1.7 oz)
Max fluid outlet pressure	21 bar (2.2 MPa, 320 psi)	158 bar (16 MPa, 2300 psi)	206 bar (21 MPa, 3000 psi)	241 bar (24 MPa, 3500 psi)	310 bar (28 MPa, 4000 psi)
Air Motor Displacement	400 cc	1200 cc	1200 cc	1800 cc	1200 cc
Air Consumption	0.34 m ³ /min at 3.8 lpm (12 scfm at 1 gpm)	0.96 m ³ /min at 3.8 lpm (34 scfm at 1 gpm)	0.96 m ³ /min at 3.8 lpm (34 scfm at 1 gpm)	1.53 m ³ /min at 3.8 lpm (54.7 scfm at 1 gpm)	0.96 m ³ /min at 3.8 lpm (34 scfm at 1 gpm)

Ordering Information

	Reporting	Meter Version		Pump / Pump Version				Pump / Bellows Version		
		206 bar (*)		Airspray	Air Assist		Airless	Airspray	Air Assist	
		1 Colour	3 Colour	21 bar	158 bar	206 bar	310 bar	21 bar	158 bar	241 bar
		3:1	23:1	30:1	45:1	3:1	23:1	35:1		
Electric Non-IS	Screen	24F080	24F081	24F088	24F089	24F090	24F091	24F092	24F093	24F094
	USB	24F082	24F083	24F095	24F096	24F097	24F098	24F099	24F100	24F101
Air Powered Alternator, IS	Screen Only	24F084	24F085	24F102	24F103	24F104	24F105	24F106	24F107	24F108
	USB	24F086	24F087	24F109	24F110	24F111	24F112	24F113	24F114	24F115

* Up to 275 Bar with Meter System High Pressure Hose Kit 24H256

ProMix 2KE Accessories

Meter Kits

Contains one flow meter, cable and hardware

- 15V806 1/8" Coriolis Flow Meter
- 16D329 S3000 (Solvent) Flow Meter
- 244256 High Pressure Hose Kit 275 bar

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 0,95 l (0,25 gal) polyethylene
- 206995 TSL™
- 243340 Pail Cover with Agitator
Use to agitate material in a 18.9 l (5 gal) pail
- 222121 Fluid Regulator, Stainless Steel
Maximum working pressure: 103 bar (10.3 MPa, 1500 psi)
Regulator range: 10-82 bar (1-8.2 MPa, 150-1200 psi)
- 24A587 Pump Outlet Fluid Filter, Stainless Steel
250 micron (60 mesh), 345 bar (35 MPa, 5000 psi)
- 256425 Fluid Filter Drain Valve, Stainless Steel
345 bar (35 MPa, 5000 psi)
- 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
- 280573 Calibration Kit
- 24H255 2 Colour Expansion Kit
- 123280 15M (50 ft) CAN Cable - IS
- 15U533 15M (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
(Meter 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 labour and off-ratio re-work costs. The Graco ProMix 2KE reduces these expenses and provides a quick Return On Investment.

RETURN-ON-INVESTMENT (ROI) EXAMPLE

ROI Information	Hand Mixing	ProMix 2KE	Your Estimate	Formula
Customer Data				
Average Cost of mixing material per liter	12	12		A
Average Solvent cost per liter	4	4		B
Number of days per year (one shift = 8 Hrs / day)	200	200		C
Number of shifts per day	1	1		C
Labour rate per hour	35	35		E
Material usage				
Number of batches / colour change per day	3	3		F
Unused mixed paint per batch (Liters)	1	0,2		G
Solvent used per batch (Liters)	2,5	1		H
Preparation and clean-up time per batch (Hrs)	0,5	0,05		I
Analyses				
Total annual cost of waste paint	7.200	1.440		J = (AxCxDxFxG)
Total annual cost of used solvent	6.000	2.400		K = (BxCxDxFxH)
Total annual labour cost	10.500	1.050		L = (CxExFxI)
Total annual cost by Hand Mixing	23.700			M
Total annual cost by ProMix 2KE		4.890		N
Total annual cost savings from ProMix 2KE		18.810		O = M - N



ABOUT GRACO

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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Graco is certified ISO 9001.

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