Impianti Sdn Bhd

Contact: +603 5124 6200
Email: info@impianti.com.my
Website: www.impianti.com.my

WIWA®

TÜV CERT
DIN EN ISO 9001 : 2000
Reg.-Nr. 73 100 1282

ATEX 94/9/EG

Powerful WIWA Plural Component Paint Spraying Technology

DUOMIX 140 / DUOMIX 230

DUOMIX 230 und 140
Compact and versatile plural component spraying systems for paint or foam applications

DUOMIX 230

Mixing ratios range from 1 : 1 to 10 : 1

Up to 266 ccm (9 fl.oz.) output per cycle

Pressure ratios range from 22 : 1 to 74 : 1

Due to its special design, the WIWA DUOMIX 230 can also be used for three component applications

DUOMIX 140

Mixing ratio: 1 : 1

Pressure ratio: 26 : 1

Output per cycle: 86 ccm (2.9 fl.oz.)

The perfect solution for any application:

- Economical and environmentally friendly
- Suitable for a wide range of applications
- Individual solutions through modular design
- Reduces solvent use to a minimum
- Explosion-proof, pneumatic system
- Certified according to ATEX 100
- Easy to operate, dependable results
- Versions available for working with waterborne materials

DUOMIX 140 on cart frame

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ECONOMICAL AND ENVIRONMENTALLY FRIENDLY -
SENSIBLE PAINTING AND COATING TECHNOLOGY

WIWA DUOMIX 140 AND 230

The demands on the protective attributes of coatings are growing ever higher. Surfaces with high resistance to climatic, chemical and mechanical influences are required. Production and space requirements call for very short curing times. Furthermore, to meet environmental standards, coatings must be applied with a minimum amount of solvent. The solution is provided by plural component coating materials and the corresponding equipment technology. In direct cooperation with leading paint manufacturers, WIWA has developed and optimized effective plural component spraying equipment.

Reduction in Costs for Coating Materials

Coating materials can be drawn from large, recyclable, space-saving containers (drums, tanks, etc.).

No loss of material due to residue left in emptied paint cans.

The expensive disposal of paint cans with residue (hazardous materials) is eliminated.

Material is also saved, especially when using long hoses, through the effective high pressure flush pumps we offer. The high pressure ratio and output of these pumps enable mixed material in the spraying hoses to first be applied before flushing the system at the end of work.

No material loss due to excess premixed paint, as the WIWA DUOMIX only draws and mixes as much material as is required.

No solvents are necessary for processing high-viscosity materials.

Additional solvent savings are realized when cleaning the system, since only those parts which come in contact with mixed material must be flushed.

Reduction in Labor Costs

No extra personnel required for manually mixing the materials to be sprayed.

Due to the high pressure ratio and output of the WIWA DUOMIX 230 system, high-viscosity materials can be applied without difficulty. This allows a high coating thickness to be achieved in one pass, saving the time that would be necessary to apply additional coats. For larger surface area coverage, we recommend using the WIWA DUOMIX 300/333 system.

Through the use of automatic WIWA material refill systems, downtime due to replacing depleted drums/containers is eliminated and spraying can proceed without interruption.

Labor costs are also reduced, as each component in the system is transferred separately. Less work is necessary for cleaning, since only those parts which come in contact with mixed material must be flushed.

Reduction in Costs Due to Curing Time, Storage and Downtime

Through the use of high-viscosity materials with a short pot life, docking and operational costs in shipyards can be reduced.

Less downtime for repairing structures such as silos, sewage facilities, parking houses, cooling towers and pipelines.

Short curing times reduce the costs of storage and processing in most fields of application.

In the construction of large vehicles, such as railroad and tank cars, operational costs, as well as the downtime incurred when conducting maintenance, are reduced.

Costs for the acquisition and operation of drying facilities and curing ovens are reduced considerably.

The Environment

Hazardous waste is reduced through the use of large recyclable containers (no more paint cans with residual material needing disposal).

Through the use of WIWA DUOMIX units, no solvents are necessary to apply coating materials.

Disturbing odors are held to a minimum during the spraying and curing phases.

Overspray is kept to a minimum and hazardous odors reduced are due to the fact that solvent is not required for thinning the paint.

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WIWA DUOMIX 140

The new compact WIWA DUOMIX 140 proportioning system with a fixed mixing ratio is designed for use in either coatings or foam applications.

WIWA DUOMIX
State-of-the-Art Technology

- Economically priced dual component application system for trade and industry
- Fixed mixing ratio
- Uninterrupted flow of material
- Highly accurate mixing results
- Easy to operate
- Versions for waterborne materials available
- By simply exchanging a few components, the unit can adapted to inject acrylate gel for structural preservation applications
- Explosion-proof, pneumatic system
- Certified according to ATEX 100

APPLICATIONS INCLUDE:

Airless or Air Combi coating applications with paints or lacquers having a volume mixing ratio of 1:1. Ideal for foam sealant and insulation applications.

Basic version includes:

- High-pressure pump including Ø 140 mm (5.5 in.) air motor and two material pumps
- Air muffler
- Air pressure regulator
- Two pressure gauges to optically monitor the pressures on each component

Optional accessories:

- Frame for wall mounting
- Cart frame
- Flush pump with suction hose
- Frame-mounted mixing block
- External mixing block
- Airless spray gun
- Air Combi spray gun
- Two-component mixing gun (static mixer at the tip)
- Fluid hoses
- Explosion-proof WIWA 3500 Watt fluid heater – temperature range: 20-85°C (68-185°F)
- Electrically heated hose packages
- Filling funnels (6 ltr. / 1.58 gal.) for the A and B components
- Suction hoses

TECHNICAL SPECIFICATIONS:

Mixing ratio:	1:1
Pressure ratio:	26:1
Max. output per cycle:	86 ccm (2.9 fl.oz.)

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OPTIMAL MODULAR SOLUTIONS FOR ALL INDUSTRIAL COATING AND FOAM APPLICATIONS

WIWA DUOMIX 230

WIWA DUOMIX
State-of-the-Art Technology

- The compact and versatile design of the WIWA DUOMIX 230 is based upon the same proven mechanical principles behind the WIWA DUOMIX 300/333 high-performance plural component application equipment
- A wide range of performance ratings ensures superior results whether working with low-, middle- or high-viscosity coating materials or foams
- Modular solutions available for nearly any application
- The DUOMIX 230 is designed to offer interchangeable mixing ratios combined with the security of a fixed ratio system
- By simply and quickly exchanging the hardener pump, new mixing ratios can be achieved without time consuming fine adjustments or volume checks

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Economical and environmentally friendly

- No loss of paint due to excess mixed material
- Coatings materials can be drawn from large, recyclable containers, avoiding costly disposal of used paint cans
- No labor costs for manually mixing and agitating plural component materials
- Minimum overspray and reduced odors as no solvents are required to thin paints or foams

Basic version includes:

- High-pressure pump including Ø 230 mm (9 in.) air motor and two or three material pumps, depending on the mixing ratio
- Sturdy frame to mount all components
- Air maintenance unit "R1" complete with all connections
- High-pressure filters for base and hardener
- Safety mechanism (rupture discs) on the high-pressure side of each component
- Circulation system for draining air and releasing fluid pressure
- Manual mixing valve with static mixer
- Air muffler
- Two pressure gauges to optically monitor the pressures on each component

Optional accessories:

- Pneumatic piston or diaphragm feed pumps
- Explosion-proof WIWA 3500 Watt fluid heater – temperature range: 20-85°C (68-185°F)
- Pressure and metering control for one or both material components with automatic shut down if the set tolerances are exceeded
- Pneumatic stroke counter for quantity control
- Flush pump for cleaning all components that come into contact with mixed material
- De-icing system for the air motor
- Versions for waterborne materials available
- Filling funnels for the A and B components
- External mixing block for materials with a short pot life
- Agitators
- Manual volume ratio check assembly, also for touch-up work

Flush pump

Air maintenance unit

Control box

Pressure and metering monitor

TECHNICAL SPECIFICATIONS:

Mixing ratios from 1:1 to 10:1

Pressure ratios from 22:1 to 74:1

Max. output per cycle: 266 ccm (9 fl.oz.)

APPLICATIONS INCLUDE:

All industrial coating applications, wood-working industry, steel and building fabrication, railcar construction, structural preservation, corrosion protection, paint supply systems, marine and offshore industries, pipe and pipeline coatings.

COLOR CODED SECURITY:

Confusion between feed containers, hoses and connections used for base and hardener components is avoided through color-coding. These parts are colored blue if they come in contact with base material and red for hardener.

Pump with metering control