



Tecdol GmbH

For water and solvent-based paints

PAINT

management

management

paintshop technology

2K

f e e d



„With the Coriolis mass flow measurement system we were able for the first time to realise a reproducible measurement and control circuit which exactly adjusts the geared pump in real time for each individual painting process so that a constant through-flow quantity or paint dosage is ensured. This considerably reduced the tooling times because there is no need to gauge the paint levels and the number of rejects were minimised with a simultaneous quality improvement. In addition to this, the software package allows traceability of the individual parts in the process.”

Dr. Hahne
Hella Innenleuchten-Systeme

The 2K paint feed has a measurement and control circuit to ensure uniform mixing ratios in the multi-component system. All of the parameters of the process can be recorded.

Suitable for water-based paints

As all of the paint-bearing parts are in stainless steel, the paint feed is ideal for water-based paints.



painting with control ...

reproducible painting process • consistently high quality • minimisation of rejects

1K

The 1K paint feed has control circuits for a controlled build-up of layers so that a reproducible layer thickness can be ensured.

2K

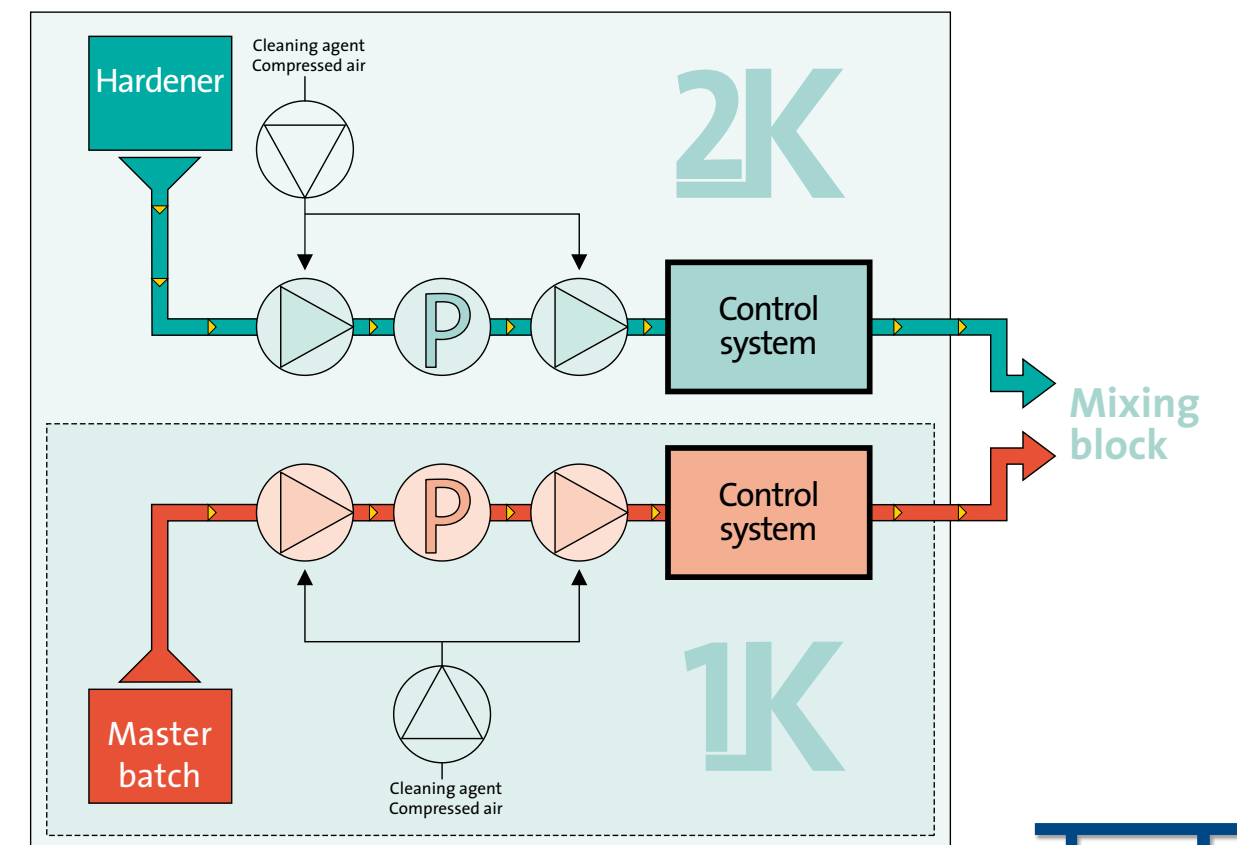
P A I N T f e e d

YOUR ADVANTAGES

- Drip time monitoring
- Measurement control loop
- Recipe administration
- User friendly
- Indirect level measurement
- Within ten minutes you can change the cogs yourself
- Transportable
- Stand-alone solution – no further components necessary for painting
- Integrated automatic atomiser control
- Paint consumption measurement
- Tanks from 4 to 18 litres without additional components as the paint feed is integrated

ADVANTAGES WITH PC SOLUTION

- Individual part data registration
- Large recipe administration
- Network integration





SCOPE OF DELIVERY OF THE DOSING SYSTEM

1 control system

- Touch panel for the entry of all parameters including specified and actual mixing ratio, consumption of paint, hardener and solvent, throughflow, pot time and program number
- Ethernet link (others on request)
- Error report buffer for 10 error messages in clear text
The control cabinet is not explosion-protected (explosion-protection possible for a surcharge)
- Only an ON/OFF signal is necessary

1 mixing block unit

- Complete with the pneumatic valves
- Simple mixing ratio inspection with the measurement system (no gauging necessary)
- 1 volume throughflow meter (maintenance free)
- Mixing pipe for easy replacement
- On request the mixing block can be installed close to the workstation

1 safety system

- To monitor the volume throughflow meter
- To control the paint flow, report faults and shutdown the system
- Level indicator for the pot

PC solution (optional)

- In the case of a PC solution, a part photo is integrated in the user interface
- Unlimited number of programs
- Data registration
- Network integration

TECHNICAL DATA

Mixing ratio:

Variable from 1:1 to 200:1
by simply tipping the touch panel.

Protection against unintended alteration due to a number of password levels to clearly assign authorisations such as operation, set-up and service.

Real time PI measurement and control circuit

Programs:

128 pre-settable programs with various data can be stored and called up with the aid of the program number.

Rinsing programs:

There are 5 rinsing programs, programmable according to volume or time. Each one of these programs can be stored behind an application program. Each rinsing program can control up to 5 rinsing valves in any sequence.

The stated quantity must have flowed through before processing can continue. This provides great process reliability and prevents unnecessary cleaning agent losses.

Pressure range:

0.4 – 8.7 bar selectable according to the application (larger pressure ranges on request)

Control accuracy:

+/- 0.5 %

Output quantity:

1 - 42000 ml/min
selectable according to the application

Atomiser control:

The atomiser parameters can be stored in the recipes. Horn air and atomiser air are controlled by high-precision proportion valves.

Paint and hardener valve:

Pneumatically controlled paint change upstroke valve. Due to the modular construction it is very easy to add other paints. 4 paint valves or hardener valves can be administered by the control system. When the program number is selected, the correct hardener and paint valve is opened automatically.

Further special features

The system also contains an integrated monitoring system with automatic shutdown of the system in the case of incorrect mixing ratios or overshooting of the pot time. This control system also provides an early warning before expiry of the pot time in order to avoid an unnecessary rising process due to a replacement of the material in the tube. Suitable for solvent and water-based paint.

All parts in contact with material are in stainless steel.



Tecdot

TECDOT GmbH
Kürnberger Straße 13
D-79650 Schopfheim

Tel. +49 (0) 76 22.68 47 48-0
Fax +49 (0) 76 22.68 47 48-20

www.tecdot.de
info@tecdot.de

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