CTM design and supply a range of epoxy metering units for specific end user requirements

Each of he following epoxy metering units is designed to meet a customer specific application

This epoxy metering unit features a fully ‘closed loop’ flow and ratio management system capable of metering and mixing epoxy resin at an output of up to 60 Kg per minute. The mixing head is connected directly to the main pump unit frame so as to achieve a very compact system. The operating environment in which this machine was to run is very hot and humid, we therefore fitted a control system cooling unit which is connected to a separate chiller unit.

The component tanks are 100 litres each and are of the heated/cooled water jacket design. Each component is stirred so as to optimise temperature control. Component level is monitored using capacitance probes and the levels are displayed on the Siemens 10” colour operator interface.

The hardener pump features a magnetic coupling for maximum reliability.

This epoxy metering unit is quite special in that it meters and mixers a three component filled epoxy system that is also and epoxy foam. Processing was required to be at ambient temperatures so as to reduce the effects of too excessive the exothermic reaction during the curing phase.

The foaming agent is not compatible with the base resin; therefore this component is injected directly at the mixing head at a rate 0.5%.

The machine features a full time component flow and ratio control system. A special resin flow meter is employed for the very high viscosity filled resin.

This epoxy metering unit is designed for large sized mouldings and features full time ‘closed loop’ flow and ratio control and a four colour pigment injection system.

The four colours are stored within 18 litre stainless steel tanks which are mounted onto a separate mobile support frame.

The base resin is stored within a separate 330 litre conditioning tank

The complete system is managed by a powerful Siemens S7 300 series plc.

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