



01/06/2007 - Cool trucks

Modern day living requires the daily movement of millions of tons of food which must be kept fresh in refrigerated transport Polyurethane is well known as a superior insulation material and its use in the manufacture of refrigerated truck and trailer boards is increasing rapidly.

Turkish company YILDIZ of Istanbul has recently introduced a new high pressure metering equipment to enable and to produce complete truck/trailer sides up to 15 metres long x 3 metres high and 100 mm thick.

Using locally made presses the plant supplied by OMS Group comprises 2no ECOMASTER II 200/100 high pressure metering units which are fed from a common pressurised tank group of 500 litres (each) capacity.

Two EcCOMIX DF 16/24 high pressure mixing heads are served by each machine and the heads are positioned horizontally at the end of a PVC dispense pipe to produce a smooth 'curtain of liquid polyurethane during the pouring phase the OMS Group Plant is completed by a special carriage which supports the heads and holds the pipe in position during the foaming cycle.



The production cycle begins with the preparation on a traversing table of a complete panel assembly consisting of a glass reinforced Polyester internal surface, suitable spaces and reinforcement and an inner sheet of aluminium coated or stainless steel.

When completed the assembly is sent into the press which closes and by means of a vacuum system fitted to the upper platen retains the upper sheet, when the press is opened and the lower assembly is withdrawn from the press.

The pouring phase is then undertaken as the lower 'open tray' is returned into the press and at the end of the cycle the PVC dispense pipe is automatically detached and released into the lower mould where it becomes an integral part of the formed assembly .

After closing the press remains clamped during the polymerisation stage, at the end of which the press opens, the formed assembly is drawn out and demoulded and the next production cycle begins.