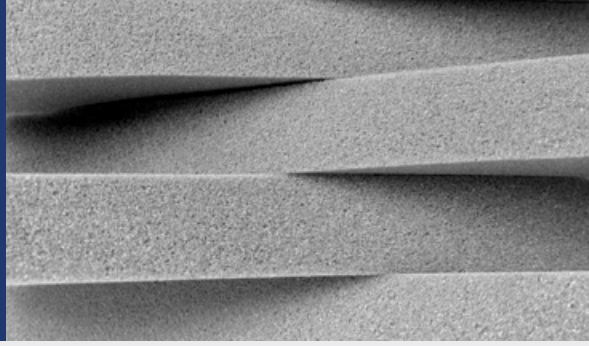
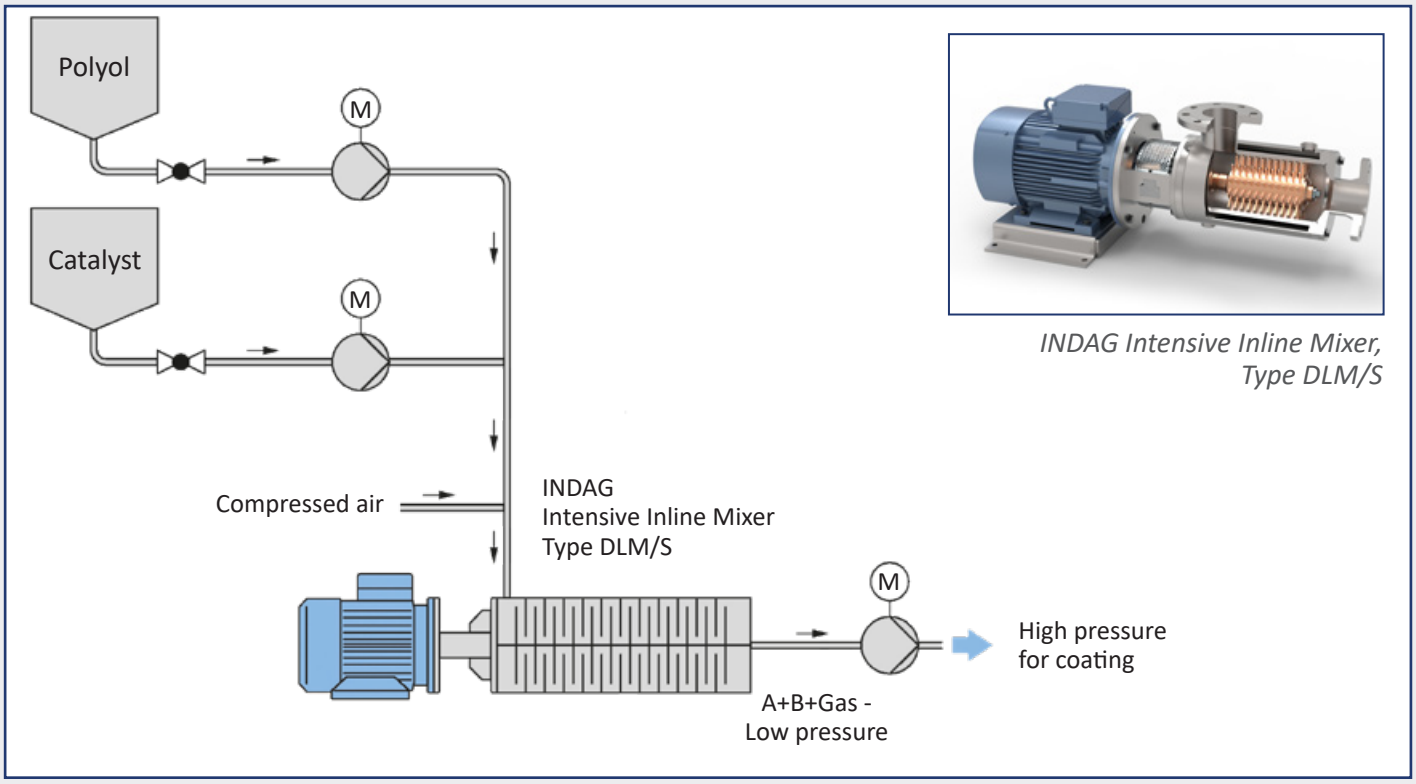
Case No. 505A
Foaming of polyurethane





INDAG Intensive Inline Mixer, Type DLM/S

Flow diagram example for foaming polyurethane

Process description

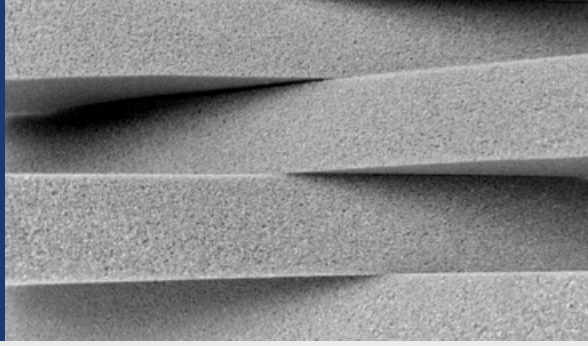
The liquids polyol and catalyst are pumped into the mixer via external pumps. Shortly before the mixer, more than 10 % compressed air is continuously added via an adapter. In the mixer, the components are homogeneously mixed. Due to the special shape of the mixing elements on the rotor and in the stator, the air is introduced efficiently, evenly and finely distributed into the continuous phase.

Thanks to a magnetic coupling, the mixer design is very compact and low-wear. The process takes place in the low-pressure range, so that the high-pressure pump used to spray the finished product is protected from high cavitation. A pressure of 150 - 170 bar is then generated, as required for the spraying process. Isocyanates are only added in the nozzle head.

Advantages

- **Protects the pump from cavitation and increases the service life.**
- **With the dynamic mixer a higher gas input into the product can be achieved.**
- **Maximum flexibility for customers with changing recipes by individually stopping or starting each individual dosing stream.**
- **Efficient mixing with an absolutely homogeneous result within seconds.**
- **Minimised mixing volume saves product during product changes and or throughput adjustment.**

Case No. 505A
Foaming of polyurethane







Mixing elements of an
INDAG Intensive Inline Mixer, Type DLM/S

Comparable applications with a similar process and the same mixer

- Aerate adhesive
- Aerate natural and synthetic latex

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