

MOULD RELEASE AGENTS

FOR POLYURETHANE FOAMS



CHARACTERISTICS

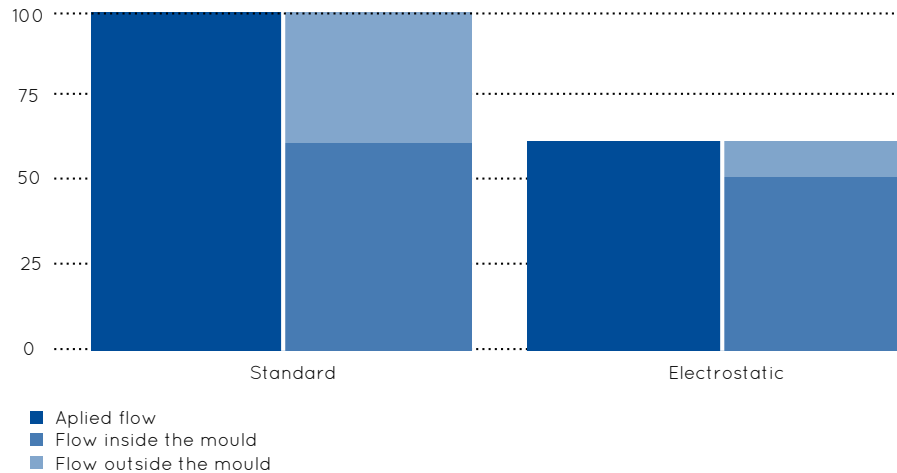
- Developed after intense research and with the **experience acquired in diverse industries**
- **Flexibility and agility** in adapting productive processes
- The main industries of application include: **automotive, construction, insulation (thermal and sound), furniture, footwear and others**
- **Quality guaranteed** by the ISO 9001/2008 Certificate
- **Preservation of the environment** certified by the ISO 14001 Certificate.
- **Security of supply** thanks to a great production capacity
- Technical, international commerce and specialized service
- **Wide range of products** and in constant development
- CONCENTROL can develop and adapt **new products to fully satisfy the requirements of each customer**

BENEFITS

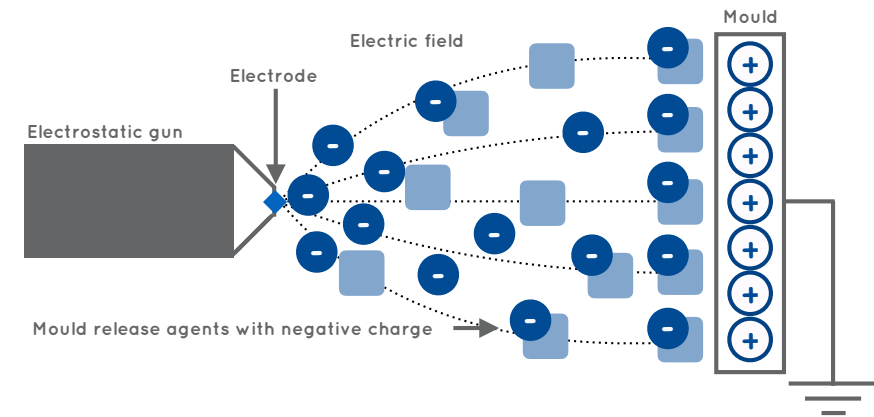
- Avoids high-adhesion polyurethane foams from sticking to moulds, and allows pieces to be removed without imperfections.
- There is a family of mould release agents designed for each of the different applications, needs and possible variations in polyurethane moulding.
- Can be supplied as ready-to-use concentrates, diluted or diluted concentrates depending on customer's needs.
- CONCENTROL provides specific and efficient solutions for all types of parts, including those whose requirements are increasingly demanding with regard to appearance, surface finish, high productivity, cost, mould cleaning, ease of application and protection of work spaces and the environment

INNOVATION IN MOULD RELEASE AGENTS FOR POLYURETHANE FOAMS: ELECTROSTATIC MOULD RELEASE AGENTS, ADVANTAGES AND APPLICATIONS

- CONSUMPTION AND APPLICATION COMPARISON



- ELECTROSTATIC GUN APPLICATION



- The product and the mould are given opposite electric charges.
- Opposite charges attract each other.
- The mould release agent reaches all corners of the mould by attraction.
- The mould attracts the mould release agent to avoid unnecessary losses outside the mould with the consequent reduction of consumption.

- ADVANTAGES AND CONSIDERATIONS

- Important decrease in consumption, between 30 and 50%
- Significant reduction of VOCs emitted improving the work environment
- Easier to control application through robotic systems (although manual application is possible)
- Need for specific equipment and larger, heavier guns. This results in a greater investment in equipment.

- Electrostatic mould release agents are currently viable only on a solvent basis, since the water bases have infinite conductivity.
- CONCENTROL can convert any solvent-based reference from its catalog to electrostatic.
- Electrostatic products do not exhibit strong odors or additional toxicity, and allow electrostatic work with solvents known in the industry as class 1, 2 or 3.