# RELEASE AGENTS FOR MOLDED POLYURETHANE: NOTIONS, POSSIBILITIES, STUDY AND PRODUCT ADAPTATION

## INTRODUCTION

A **release agent** is essential, since polyurethane cannot be molded without it. Not only does it release from the mould, as its name suggests, but it also **interacts with polyurethane to a greater or lesser degree.**

Its use has influence on **the appearance of the part produced**, on **the rejection and repair of parts**, and in general on **everything that depends on the demolded surface**.

## Uses and applications

- **Seats and backrests, head restraints**
- **Soundproofing for cars**
- **Flexible HR foam in general**
- **Flexible foam with integral skin**
- **Rigid foam, imitation of wood, RIM process, and others.**



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## Physicochemical characteristics

- **Flammable or combustible solvent base**, but always **ATEX.**
- **Combinations of water and solvent as vehicle** in hybrid formulations 50:50 to 70:30 (water: solvent), co-solvents with <10% solvent participation and 100% water-based ones.
- **Possible risks** of flammability, toxicity, VOC (emission of volatile organic compounds), transport, storage, stability and robustness of the product.
- **Additional parameters** such as the dirtiness of the molds when working, the adequate cleaning for each type of residue that remains in the mould, possible allergies depending on the materials used and the sensitivity of the operators.

Taking into account all these parameters, and the work system of each client, **CONCENTROL adapts the optimal release agent for each line**, by designing formulations that cover all their needs.