

# THE SECTOR OF POLYURETHANE PANELS AND BLOCS



## INTRODUCTION

At present we can find multiple applications of polyurethane in many areas, due to its great versatility and its insulating efficiency.

In the sector of polyurethane panels and blocks we can differentiate two main types of applications: **insulating sandwich panels (continuous or discontinuous)** and **box mold blocks** made from rigid polyurethane foam. They provide thermal and acoustic insulation, and also work as a waterproofing and enclosing agent.

## Main requirements of a rigid polyurethane foam

- Thermal insulation properties (closed cell structure and low conductivity)
- Good adhesion to different substrates
- Dimensional stability
- Flame retardant properties
- No surface defects
- Good fluidity (refrigerated and discontinuous)

# CONCENTROL RANGE

## Silicone stabilizers

- A wide selection of additives that allows to offer a different stabilizing power for the MDI, TDI / MDI and TDI systems
- Cell regulation and internal stabilization can be adjusted to obtain good quality foams with improved processability.
- Lambda optimization
- Optimization of flowability
- Optimization of B2 test results (PUR / PIR)
- Options for different blowing agents
- Possibility to choose options free from SHVC

## Release agents

Applications:

- **Continuous sandwich panels** silicone paper is usually used on the sides of the panels, so in many cases it is not necessary to use a release agent. Except: when is continuous carousel of side-blocks (high-density PE pieces), in that case a solvent-based release agent is applied.
- **Discontinuous sandwich panels** the panels are completely closed on all four sides, in which a release agent would not be used. Except: in areas where foam overflows, area in which release agent could be applied..
- **Box mould** release agents are applied in a simple and rudimentary way. In some cases that some clients also use semi-permanent release agents, so that the release agent does not transfer from the mould to the piece.

## Concentrol references

**CONCENTROL LP RD-8-6:** has a dry finish, easy to degrease, for rigid foam imitation wood and automobiles.

**CONCENTROL LP RD-07 BT:** has a slightly greasy finish and is especially suitable for discontinuous sandwich panels.

**CONCENTROL LP RD-5 ASA y\_****CONCENTROL LP RD-5 ASC** laminated leather finish, discontinuous insulating panel, concentrated to dilute with **CONCENTROL LP RD-5 ASA** with a laminated leather finish and applied to discontinuous insulating panels.