

## PLIOGEL

### DESCRIPTION

Two-component, polyurethane-based structural adhesive. It is black-coloured and resistant to high temperatures, humidity, petrol and most solvents/chemicals.

It is formulated for structural bonding of a wide range of materials, including thermoplastic and thermosetting polymers, steel, aluminium, concrete, wood and glass.

It is particularly suitable for small, fast and long-lasting joints and for repair work. It can be sanded and painted after a short time from application.

Its optimal consistency allows vertical applications and filling of cavities. Combined with a reinforcing mesh, it can be used to rebuild bumper brackets.

### CHARACTERISTICS

- Appearance: Thixotropic paste
- Base: Polyurethane
- Colour: black
- Specific gravity:  $1,25 \pm 0,05 \text{ g/cm}^3$
- Hardness Shore D:  $\sim 65$
- Elongation at break: 56%
- Tensile strength:  $22 \text{ N/mm}^2$
- Operating temperature: from  $-30^\circ\text{C}$  up to  $+150^\circ\text{C}$

### SUBSTRATE PREPARATION

The surfaces to be treated must be perfectly clean, dry, and degreased. If possible, sand to remove any residue and to improve the sealant adhesion.

On thermoplastic materials such as PVC, polycarbonate, polypropylene, PMMA, etc., use a water-based detergent (such as No-Sil Aqua). The use of strong solvents should be avoided because they could damage the surface.

On other materials, use acetone. Never use petrol or other solvents.

On plastics such as PP, PE, POM, EPDM and polyamide it is necessary to apply a specific primer (such as Primer Per Polipropilene).

Metallic substrates should be protected with paint or primer before applying the sealant, to avoid adhesion loss over time.

### APPLICATION

Apply the product directly on the surface, with minimum thickness of 0.5 mm.

Join the surfaces to be glued within 60 seconds from the adhesive application and keep them tightly in place, pressing evenly on the entire joint surface.

Application temperature:  $10^\circ\text{C}$  to  $30^\circ\text{C}$ .

### DRYING TIME

	1'-version	3'-version
Working time	90 seconds	210 seconds
Clamp time	5 minutes	15 minutes
Sanding time	10 minutes	30 minutes

*The effectiveness of our products is based on practical experiences and research work carried out in our laboratories; nevertheless we accept no liability for work carried out following our instructions being clear that the final result depends in all cases on a series of unforeseeable factors.*

\* For any information about product codes or packs, please see our catalogue, our price list or contact us.