

TECHBOND®PUR PROCESS

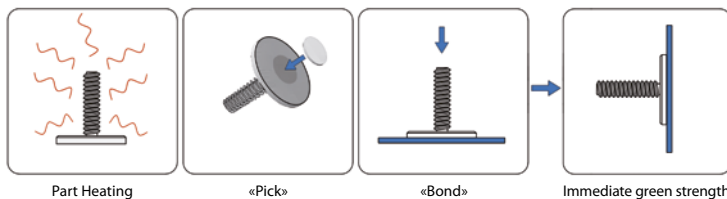


Pick&Bond... A fully coordinated process for lean bonding

Techbond®PUR structural adhesive, follows a simple activation process triggered through heat: "Pick&Bond"

Pick&Bond process

1. Part heating (hidden time)
 2. "Pick": the adhesive, stored at room temperature, is picked up and sticks to the hot part by thermal conductivity – it melts in 5 to 10s
 3. "Bond": solidification while cooling (curing of the adhesive) (from 2 to 5s)
- Allows immediate green strength (5s)



Within only 5 seconds, bonded parts can be manipulated and moved to the next manufacturing stage.

Industrial application, easy on-line integration

With simple modules (adhesive dispenser, part dispenser and part heating device), the process can be adapted to all types of parts and is easily integrated into an automatic, semi-automatic or even manual production line. Our modules are designed to be plugged into the assembly line. They allow continuous production flow, require limited workspace and are simple and easy to maintain.

Most of the modules are standard units and can be very quickly set up.

Innovative and easy bonding, efficient and repeatable

Due to its easy automation, Techbond®PUR technology offers the highest level of precision and quality:

- Dry and tack-free adhesives, easy to manipulate with automatic devices: accuracy of adhesive positioning
- Automatic part heating: fixed temperature and time
- Robotic assistance or manual control system: ensures an efficient and repeatable adhesion process

Time saving, instant bonding

As green strength is achieved in a few seconds, bonded parts can be manipulated shortly after application. Bonding does not disrupt production flow.

Up to 80% curing is achieved after 5 minutes: curing stocks are eliminated.

Clean and green

Techbond®PUR tabs and pearls contain no solvent and produce no waste.

No adhesive residue needs to be removed from assembly equipment. Only the exact quantity of adhesive is selected and applied: the working environment is perfectly clean.

For performance assemblies on materials difficult to drill, cut or weld

Techbond®PUR is a range of one-component polyurethane adhesives. These are heat curable structural adhesives for bonding on laminated glass, tempered glass, painted metals, plastics, glass and carbon fibers and many other composites.

Fully dedicated to industrial bonding, the Pick&Bond process eliminates many non-value-added activities, such as extra storage facilities for curing, and ensures consistent, long-term adhesion.

Techbond®PUR is based on a specific chemistry that allows high bonding strength. It is adapted to assemblies with dynamic stress and permanent loads.

Tailor-made Services

Considering your general manufacturing needs, ARaymond* can assist you throughout the entire supply chain of the bonding process: design of the solution, delivery of the equipment, implementation on site, process commissioning, production assistance (employee training, logistics, maintenance...), and serial life follow-up.

Our commitment is to help you focus on your own know-how by providing you a complete service offer.

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