Fields of application







Rescoll will provide you with a tailored adaptation to your bonding process





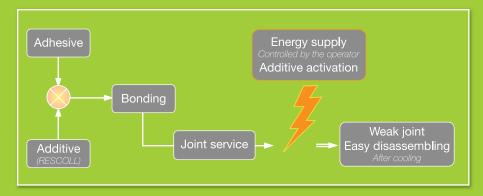






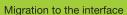
Industrial structural adhesives with innovative fonctionnality: DISASSEMBLING

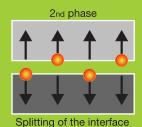
- Modification of industrial adhesives with specific additives
- Patented process for dismantling of an adhesive joint



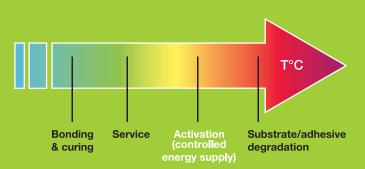
- Dismantling on control by thermal activation







• Activation temperature tuned to the bonding specifications





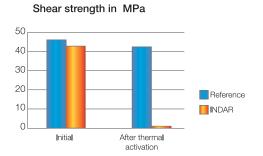


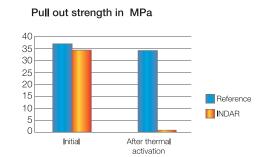




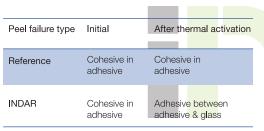
Mechanical data

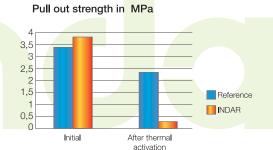
Ceramic bonded on metal alloy with 2K epoxy (industrial reference modified with INDAR)





Tempered glass bonded on metal with 1K polyurethane (industrial reference modified with INDAR)





PP bonded on SMC with 1K polyurethane (industrial reference modified with INDAR)

3,5 2,5 2 1,5 1 0,5 0 Initial After thermal activation

Shear strength in MPa

- No visual degradation or deformation of the PP substrate
- Clean surface of the SMC substrate

Example of realization

Dismantling of tailgate (glazing and plastic body parts)
An automotive success story, from lab to scale 1 validation!



Bonding operation

No modification of shelf life and ageing of the adhesive formulation (H7, ...)



Thermal activation

Adapted and localized energy delivery Scale 1 test of industrial energy sources

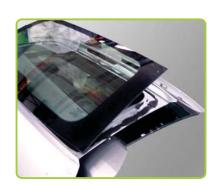


Dismantling

Dismantling of scale 1 samples: backlite, PP skin and spoiler bonded on an SMC frame.
Clean surfaces after dismantling: easier re-use & recycling

by RESCOLL





Application developed along with industrial partners



Bonds that debond...

An ecoconception of cars for further environmental friendly dismantling

A European Project supported within the Sixth Framework Programme for Research and Technological Development