DELO

Sustainable manufacturing

Activation on the flow

Oven-free curing for sustainable production*

Driven by tightening global regulations on **carbon-neutral production** and **rising energy costs**, many automotive suppliers are eliminating curing ovens from their future production plans.

Activation on the flow technology revolutionizes adhesive curing by combining the DELO-ACTIVIS device with specially developed DELO KATIOBOND FA (FA = flow activation) adhesives featuring dual-initiator systems. The adhesive is **preactivated** directly in the translucent tube during dispensing, already initiating the curing process. This enables **reliable room temperature curing** even in **complex geometries** with undercuts and shadowed areas, eliminating thermal processes entirely.

The impact is significant: over 98% CO_2 reduction*, more than 50% process cost savings*, and unlimited design freedom. Activation on the flow transforms resource-intensive manufacturing into **efficient, sustainable production** for next-generation applications.

Adhesive

>98%

reduced carbon emissions without heat curing*

>50%

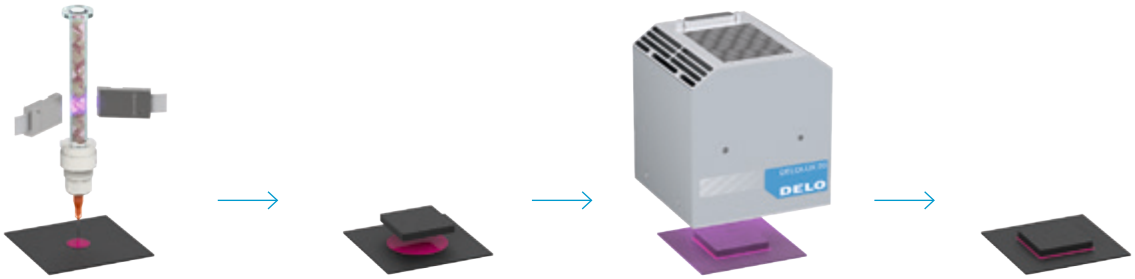
process cost savings by DELO-ACTIVIS compared to heat curing*

Fast and energy-efficient

With DELO-ACTIVIS, you can preactivate the adhesive with light as it is dispensed, and the open time begins automatically. During this phase, the adhesive remains optimally flowable and wettable, allowing you to bond components securely or cast materials with high precision.

Open adhesive areas can optionally be fixed within seconds using UV light. This provides immediate initial strength, enabling production to continue without interruption. Final curing then takes place at room temperature, eliminating the need for additional heat curing in an oven.

Activation on the flow – Process



Dispensing and irradiation in one step with DELO-ACTIVIS	Joining	Optional: UV fixation with DELOLUX 20	Final curing at room temperature

* Proved efficiency

A theoretical DELO calculation using activation on the flow technology instead of heat curing for rotor positions sensor encapsulation at a European production site showed that annual carbon dioxide emissions and process costs can be reduced in an exemplary large-scale production line with oven stations, handling production quantities of 500,000 components per year with a 60-second cycle time.

Contact our experts to learn how activation on the flow can make your processes more efficient. We'll provide personalized calculations showing your potential energy and CO_2 savings.

Ready to transform you production?
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DELO Industrial Adhesives

China | Czechia | France | Germany HQ | Italy | Japan
Korea | Malaysia | Singapore | Thailand | USA

The technical data are for informational purposes only. It is the user's responsibility to test the suitability of the device for the intended purpose by considering all specific requirements. If you need support in using the devices, please feel free to ask your contacts in our Sales Department.

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