

Cleaning before bonding

**WATCH OUT,
IT STICKS!**

#adhesiveinnovation

Bio-Circle Surface Technology GmbH
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[bio-circle.com](https://www.bio-circle.com)



CLEANING BEFORE BONDING

WATCH OUT, IT STICKS!

Industry: **automotive, energy, furniture, plastics processing, wind energy, equipment manufacturing, switch cabinet builders**

Application: **cleaning and priming in one go**

Material: **plastics (such as PVC and PE), metal**

Is bonding the new welding?

The automotive industry is leading the way. Today, lots of automotive parts are no longer welded but bonded. No matter if it is sensors, trims, mounting parts or surface protection, bonding is all the rage.

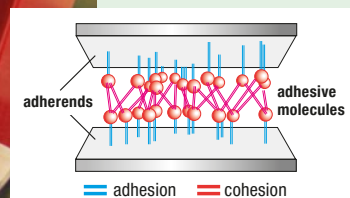
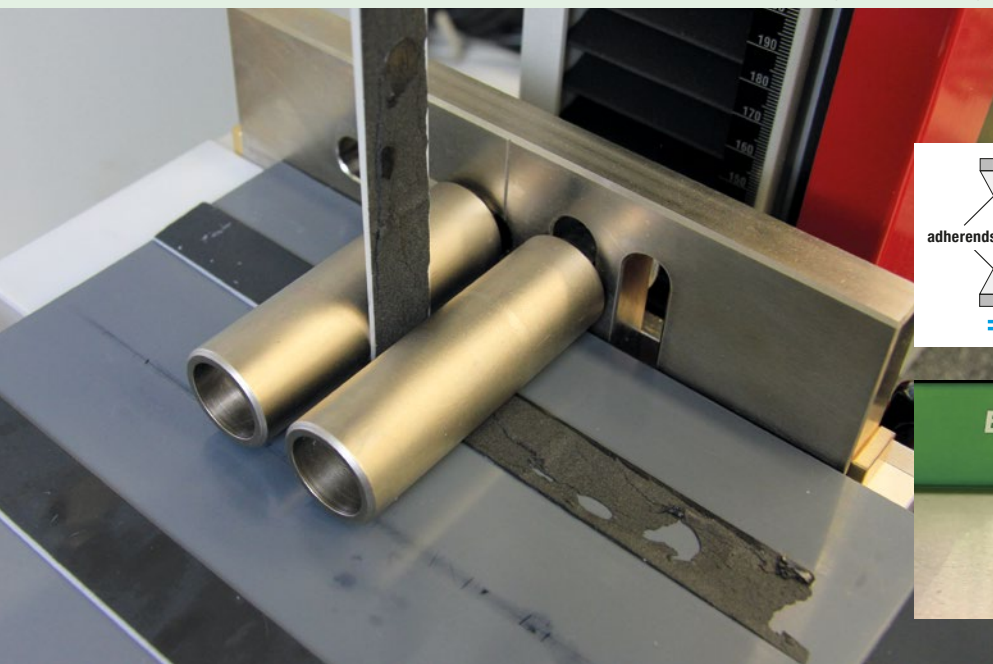
Our products, the new super talents, clean and prime in one go!

The products **increase adhesive strength up to sevenfold** – also on difficult substrates such as PVC and PE.

Application is very easy: Spray on as a fine mist or apply with a cloth. Wipe off surface with a cloth to remove contaminations. Apply adhesive tapes and press on with a pressure roller. The cleaner characteristics make priming obsolete.

Costly and time-consuming employee protection is not necessary any more, and hazardous solvents do not have to be stored any more for this application.

Checking adhesive strength



Tape test:
High adhesive strength



WHAT, AND WHAT FOR

Application	Cleaner
Cleaning and priming	Clean AD(hesive) 200
Removing adhesives	Remove AD(hesive) 200



Cleaning before bonding



CLEANING AND PRIMING BEFORE BONDING

Extremely high adhesive strength – cleaning and priming in one go.

There is the new innovation for bonding: **Clean AD(hesive) 200**. **Gone are the days of hazard-label products and elaborate employee protection** (exhaust systems and PPE). This cleaner with priming capacities clean the surface and prime it in one go. Greases, oils, and adhesive residues are easy to remove, and at the same time it is good at increasing the adhesive strength on difficult surfaces such as PVC and PE. The adhesive strength is amplified several times over. The residues of the Clean AD(hesive) 200 amplify the adhesive strength. No need to wait for the end of the flash-off time; “wet” bonding is possible. More flexible working times thanks to bonding immediately after cleaning. At the end of the flash-off time, there are still enough residues on the part to achieve an amplification in adhesive strength. **The label-free cleaner is based on renewable raw materials and can be stored and used anywhere. Extraction during processing is no longer necessary.**

Clean AD(hesive) 200

- ▶ **CLEANS AND PRIMES** in one step: plastics such as PVC and PE
- ▶ **CLEANS label-free and safely:** surfaces that are easy to paste, such as metals, which do not need any boost in adhesive strength
- ▶ **5 times higher adhesive strength**
- ▶ **Slight film of adhesion-boosting substances**



A500742 500 ml PET bottle with trigger

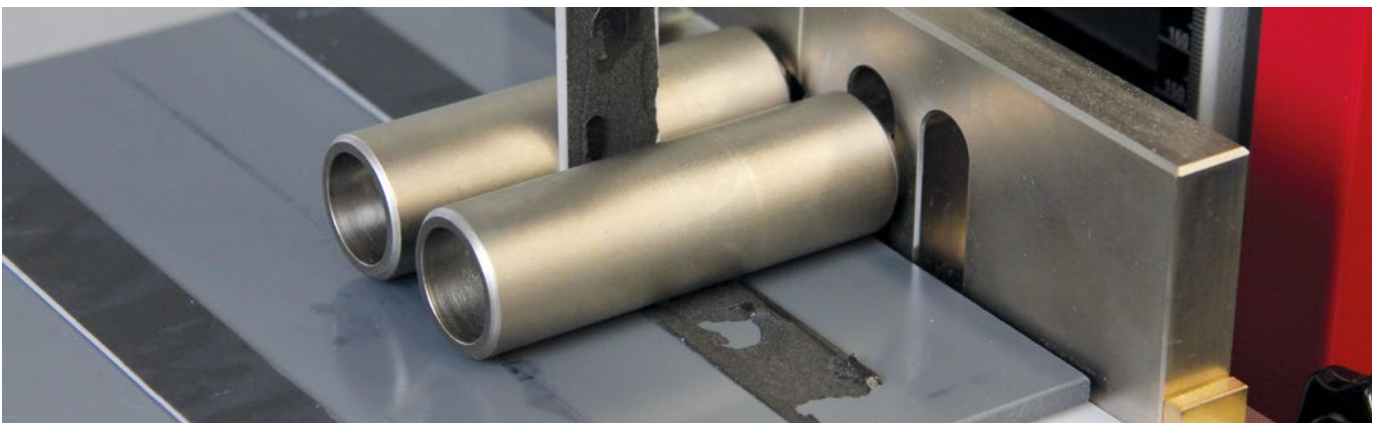
Trading unit: 20 x 500 ml (1 box)

A020742 20 L jerrycan

A200742 200 L plastic drum

A100742 1000 L IBC

Checking adhesive strength



CLEAN SURFACE BEFORE BONDING

Top performance – non-hazardous

The pre-treatment of the surface before bonding is an essential part of processing. We support you in making your bonding process safer and in dispensing with hazardous substances. To date, cleaning before bonding primarily involves the use of solvents. This process entails lots of obligations: documentation, trainings, maintaining a register of hazardous substances, technological protection measures, etc. The alternative to these processes is working with non-hazardous and VOC-reduced/-free cleaners. Their cleaning performance is at least on the same level, and the surface is perfectly clean in order to achieve a good adhesive strength for the adhesive. The legal requirements on handling these products are considerably less onerous, which means we help reduce costs and workloads.

FT 100

- ▶ Residue- and streak-free
- ▶ Suitable for the food industry



A50057 500 ml PET bottle with trigger

Trading unit: 20 x 500 ml (1 box)

A01057 Kanister 10 l

A02057 20 L jerrycan

A20057 200 L plastic drum

A10057 1000 L IBC

FT 200

- ▶ Virtually residue- and streak-free
- ▶ Ideal for wetting oily surfaces
- ▶ Temporary corrosion protection



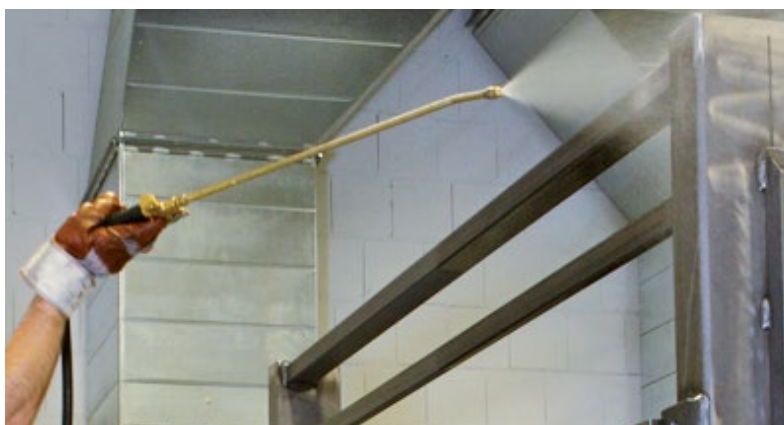
A50057-98 500 ml PET bottle with trigger

Trading unit: 20 x 500 ml (1 box)

A02057-98 20 L jerrycan

A20057-98 200 L plastic drum

A10057-98 1000 L IBC



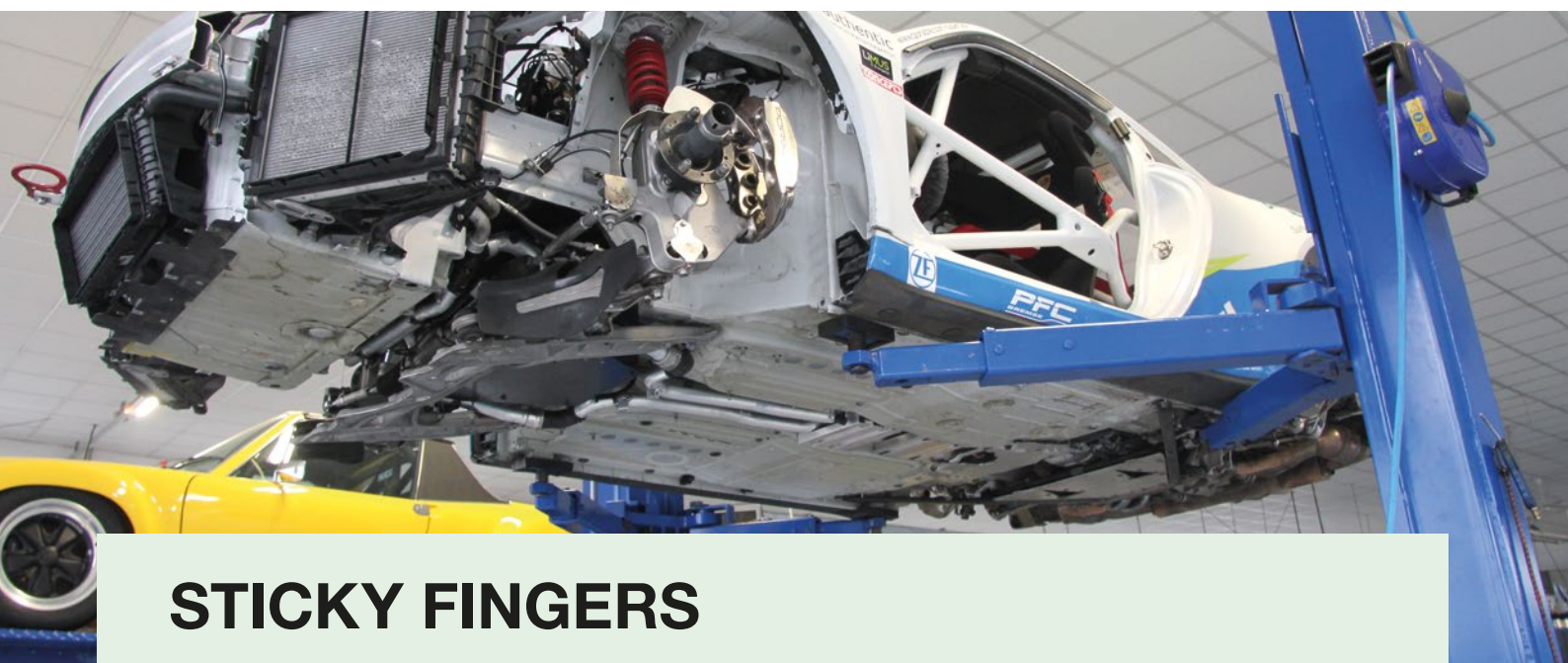


A CLEANER FOR HARD CASES

#lockstockandbarrel

A cleaner that dissolves adhesives and sealants.
Where other cleaners fail, this remover really gets going.

For manual use. Ready for use.



STICKY FINGERS

Industry: **metal processing, surface finishing**

Contamination: **adhesive residues of textile-, paper-, plastic-, and aluminium adhesive tapes**

Material: **steel, stainless steel, chrome, aluminium, non-ferrous metals**

Among other things, surface finishers coat shafts and auger conveyors – in this case with hard chrome. The company had always had huge problems with adhesive residues that remained after removing the adhesive tapes. The acetone/diesel mix used for this purpose was not a viable solution in the long run.

So they started looking for a new cleaner. After a few tests it was clear which cleaner removed a variety of adhesive residues from different surfaces in manual applications:

Remove AD(hesive) 200.



ADHESIVE REMOVER

Problem (dis)solved

Sticky contaminations do not stand a chance with Remove AD(hesive) 200! Grease, oil, separating agents, resin, tar, rubber residues, adhesive- and glue residues, and wax are removed. Remove AD(hesive) 200 is a ready-to-use water-based cleaner. The VOC-reduced remover dissolves hardened adhesives and sealants from plastic- and metal surfaces. The cleaner is based on renewable raw materials and pleasant to use. **Its slightly alkaline component makes the remover also suitable for delicate surfaces such as aluminium and copper.**

Remove AD(hesive) 200

- ▶ Adhesive remover
- ▶ Removes labels and other adhesives (hot glue, epoxy glue), sealants
- ▶ Suitable for delicate surfaces
- ▶ Creeping property

Material: Plastics, metal, aluminium, copper

FIELDS OF USE: food industry, automotive, trade, etc.
Wherever adhesives are used or foils have to be removed.



A500740 500 ml spray bottle with trigger
A020740 20 L jerrycan
A200740 K200 L plastic drum
A100740 1000 L IBC
Hazard warnings: Skin Sens. 1 ;
Aquatic Chronic 3

WHAT ARE THE BENEFITS OF THE NEW *#adhesiveinnovation*

Eco-friendly and sustainable!

No hazardous goods, no need for employee trainings, no odour nuisance, no extraction required, "I can clean directly at my workplace"!

	pH value* – values from the MSDS	VOC content in %	Flashpoint in °C	Parts washer	Ultrasound	RWR	Steel/ stainless steel	Aluminium	Non-ferrous metals	Plastics	Varnished surfaces	Zinc-coated surfaces	Hazard symbol	Signal word	VOC-free	VOC-reduced	NSF	Label-free
Clean AD(hesive) 200	-	19	118				■	■	■	■	■	■	-			VOC-reduced		■
FT 100	10.8	13	47				■	■	■	■	■	■	-			VOC-reduced	NSF	■
FT 200	11.4	11	38				■	■	■	■	■	■	-			VOC-reduced	NSF	■
Remove AD(hesive) 200	8 – 9	2.2	-	■	■	■	■	■	■	■	■	■	⚠	Caution		VOC-reduced		■

- Suitable
- Suitable to a limited extent
- Not suitable

Absolute quality, safe use, top adhesive strength!
You will obtain the performance that you want and that the adhesive requires. **Our expert team will be happy to consult you individually to find your customized solution.**

A STRONG GLOBAL PARTNER:



Present around the globe

- ▶ **CLEANING**
- ▶ **PROTECTING**
- ▶ **LUBRICATING**
- ▶ **WELDING**

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Our products are sold and used in 63 countries.

We have a global network of own subsidiaries, production sites, and trade partners.

