



## CarrierSeal®

Coating carrier and coating system chamber sealing against tenaciously adhesive coating / varnishing residues.

Part number: 091611-RM1 // Contents: 1000 ml (Bottle) / 15 bottles

Part number: 091611-RM10 // Contents: 10 l (Container)



### Application overview

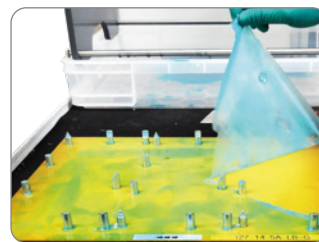
CarrierSeal® is a liquid sealing for coating carriers / goods carriers or for chamber parts of coating machines. Varnish / coating residues, which normally stubbornly adhere directly to the tools or in the chamber, can be removed at lightning speed by simply manually peeling and / or machine cleaning of the sealing film applied prior to the coating process.

- CarrierSeal® is ESD-safe (on ESD-safe substrates).
- CarrierSeal® is biodegradable.
- CarrierSeal® contains no microplastics.

A detailed application description is enclosed with the product.

Technical data	
Color	blue
pH-value at 20 °C	7,2
Flash point	> 100 °C
VOC content	< 20 %
Water solubility	fully soluble
Application	undiluted
Application temperature	20 - 90 °C peak up to 120 °C
Storing (in original container)	10 - 30 °C
CLP / GHS	classified as non-hazardous
CarrierSeal® is heat-resistant, solvent-resistant and is applied in general with a paintbrush with synthetic bristles.	

### Applications



Soldering / coating carriers



Soldering / coating masks

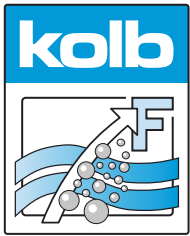


Coating system chambers



Machinery parts

**kolb** CarrierSeal® is compliant with all worldwide legal regulations and directives (REACH, RoHS, TSCA etc.) on the basis of own internal checks, analyses provided by suppliers and / or material certifications of the raw materials used in the production of **kolb** Cleaning Technology GmbH.



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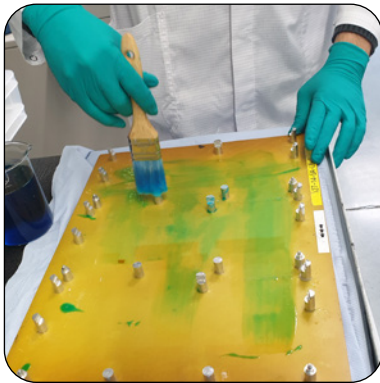
Part number: 091611-RM1 // Contents: 1000 ml (Bottle) / 15 bottles

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### Instruction manual I - Preparation

CarrierSeal® is a liquid sealing for coating carriers / goods carriers or for the chamber parts of coating machines. Varnish / coating residues, which normally stubbornly adhere directly to the tools or in the chamber, can be removed at lightning speed by simply manually peeling and / or machine cleaning of the sealing film applied prior to the coating process. Proceed as follows:



Before sealing the coating carrier with **kolb CarrierSeal®**, it must be clean, dry and free of dust and grease. For already with varnish contaminated carriers, it may be necessary to clean them with a conventional coating / paint remover (e.g. **kolb RemoCoat® Basic** / Part No. 090682-RM25) with the usual mostly manual effort.

If you are working with a 1l bottle, you can now distribute CarrierSeal® directly on the coating carrier using the drop dispenser in the bottle head. If you are working from a 10l container, it is better to pour the liquid into a smaller glass or bowl first.

Now take a brush with synthetic bristles and distribute the slightly pasty sealing liquid evenly and comprehensively on the carrier and its build-ups.

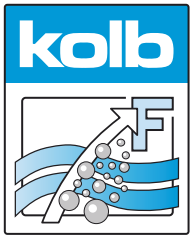
If you want to seal sheets / covers in the chamber of a coating system, proceed as described above: distribute CarrierSeal® evenly and comprehensively on the aereas / machine parts that you want to seal.



Now let the sealing liquid dry for approx. 1-2 hours at room temperature or 10 minutes at 90 °C (in peaks also up to 120 °C) in a drying chamber, a drying oven or with the drying program of a common electronic cleaning system. The sealing is now stable and the coating carrier or the coating system can be used without restrictions.

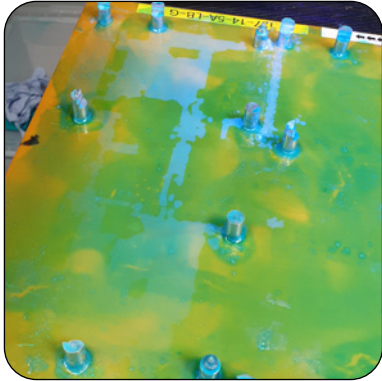


For these first steps of coating carrier sealing the **kolb** accessories CS Workmate makes the job easier for you. For more information, see page 4.

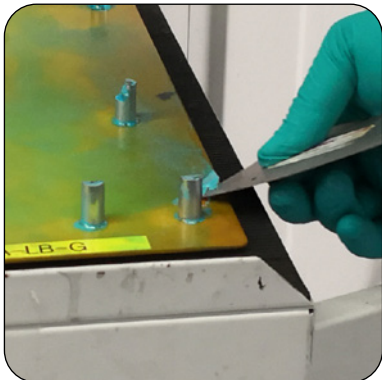


## CarrierSeal®

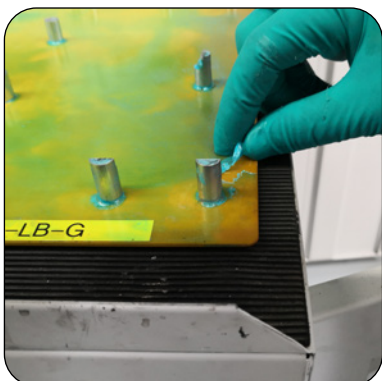
### Instruction manual II - Manual cleaning / de-sealing



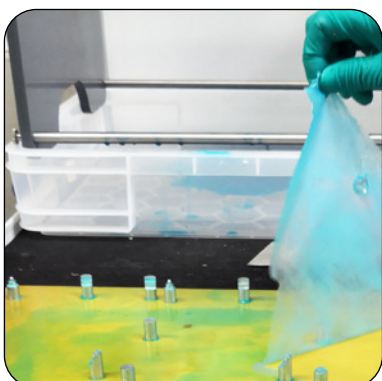
If sealed coating carriers or chamber elements are as heavily contaminated by varnish residues that optimal function is no longer guaranteed, these residues can be quickly removed by simply peeling off the CarrierSeal® sealing.



Loosen (if necessary with a spatula, scraper or similar) the sealing film at the edge of the carrier or chamber element that you can grasp the film with two fingers.



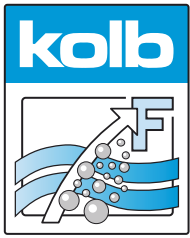
Now you can start to manually peel off the sealing film with the coating residues on it.



Remove the sealing film from the surface in large strips and, if necessary, work on possible structures / build-ups with the appropriate tool (e.g. spatula, awl).

The CarrierSeal® sealing can also be easily cleaned off by machine in a suitable electronics cleaning system. This is very advantageous especially for coating carriers with many structures and / or build-ups and even more time-saving.

How this works and what should be considered, you can read on the following page.



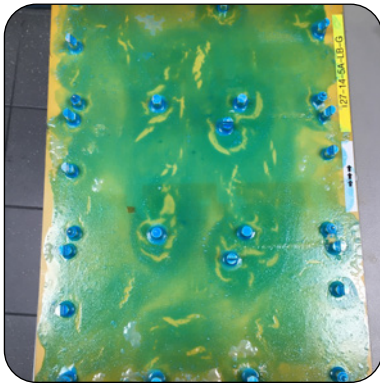
## CarrierSeal®

### Instruction manual III - Machine cleaning / de-sealing



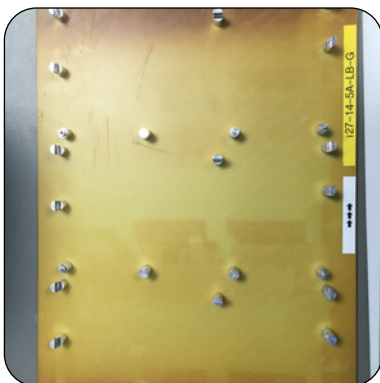
For machine cleaning, it is recommended to use a pressure spray system with vertically operating rotors, which normally cleans stencils or assemblies. It is advantageous if the system has a warm or hot air drying device. However, it is also possible to use cleaning systems with horizontal rotor layout and / or systems with compressor drying with the same cleaning success - however, a longer cycle time is to be expected here.

A perfectly suited system is e.g. the **kolb** stencil cleaning system PSE 300 HD (Part No. 0905PSE3HD). Other suitable systems can be offered on demand.



The carrier, contaminated with varnish residues, is fixed in a washing frame for machine cleaning. The cleaning time e.g. in a **kolb** PSE300 HD single-tank economy system for stencil cleaning with **kolb** MultiEx® N7 (Part. No. 090640) as cleaning and rinsing medium is approx. 30 - 60 minutes.

In addition to MultiEx® N7, **kolb** MultiEx® VR-SP (Part. No. 090678) is also ideally suited for CarrierSeal® cleaning in multi-tank systems.



The CarrierSeal® film dissolves during the cleaning process and the coating residues are washed off during the rinsing process. The carrier is now again optimally clean, dry and free of dust and grease for reuse respectively for re-sealing.



#### WARNING!

Since the coating residues do not dissolve but separate during a coating carrier cleaning process, the cleaning system used must have a "DeSealing" prefix filter option to protect the filter system of the machine. Stripped paint residues are collected by the prefix filter unit and can be removed after the process with a wet vacuum cleaner.

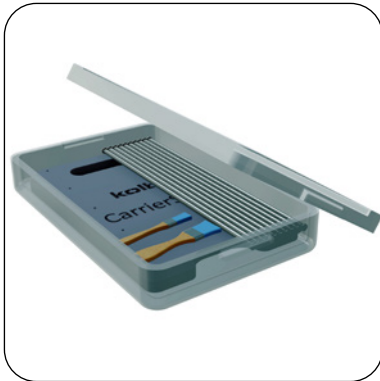
All **kolb** systems suitable for cleaning CarrierSeal® can be ordered with a DeSealing option. Already existing systems can be retrofitted.





## CarrierSeal®

### Instruction manual IV - Sealing with the CS Workmate



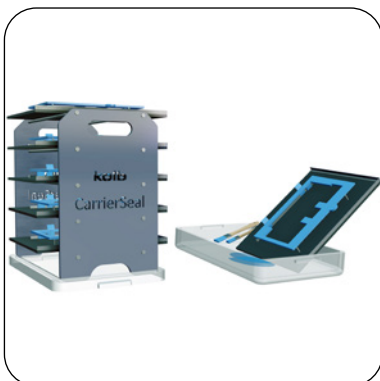
To make it easier for you to seal properly, **kolb** offers the processing unit CS Workmate (Part. No. 0907481) as a CarrierSeal® accessory.



The CS Workmate consists of the following parts:

- |             |   |
|-------------|---|
| Lid         | - as a base for the drying rack                               |
| Drying rack | - consisting of 2 side panels and 10 storage bars with screws |
| Bottom      | - as a working tub for the sealing process                    |

The CS Workmate unit includes two brushes (25 and 38 mm) with synthetic bristles and the assembly instructions.



Use the working tub to seal the carrier and to catch any dripping CarrierSeal®.

The drying rack with 5 trays is placed on the lid of the unit.



Dripped off CarrierSeal® residues can be easily removed after drying from the CS Workmate parts as previously described.

You can also clean all parts of the CS Workmate in a common electronics cleaning system e.g. for ESD boxes, magazines or machine parts.