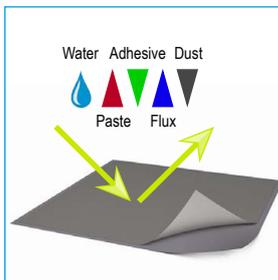


## StenSeal stencil sealing

Optimizes print results, minimizes cleaning efforts

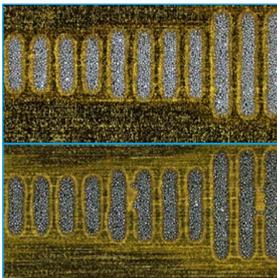


**Kolb StenSeal** is a new high-efficiency durable stencil sealing that helps to reduce both, misprints and as well as the cleaning frequency, and thus significantly increases the overall productivity.



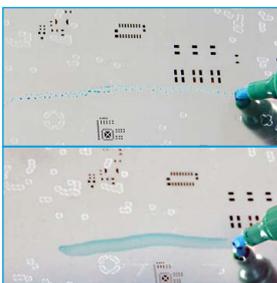
**Kolb StenSeal** generates a chemical compound with the metal surface. Like a second smooth skin this compound prevents that the apertures or surface of the stencil accumulate residues of flux, paste, adhesive or dust and so negatively affect the printing result.

When cleaning the sealing repels the rinse water so that no scale residue may remain. In addition, the mask dries much faster after the cleaning.



Printed with **kolb StenSeal** treatment - better paste release, precise print quality, easier cleaning.

Printed without **kolb StenSeal** treatment.



**Kolb StenSeal** is easy to apply (see instructions page 4) and can be repaired easily, if damaged by scratches, alcalis or excessive heat. The integrity of the sealing can be simply checked with the enclosed test pen **after the first cleaning**.

Picture above - the marker line is disrupted: the sealing is intact.  
Picture below - the marker line is solid: the sealing is worn out.

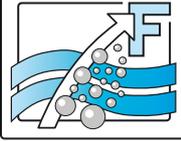
**Kolb StenSeal** requires no special disposal activities, contains no nano particles and is fully REACH compliant (see safety data sheet).

**Longer excellent printing results** before cleaning becomes necessary  
**Time and resource savings** through fewer wash cycles

# The real deal is to seal!

**Kolb Cleaning Technology GmbH**  
Karl-Arnold-Str. 12 · D - 47877 Willich  
Further information: [www.kolb-ct.com](http://www.kolb-ct.com)

Phone +49 (0) 2154 9479 - 38  
Fax +49 (0) 2154 9479 - 47  
e-mail [info@kolb-ct.com](mailto:info@kolb-ct.com)



**Technical information**

**StenSeal Set**

**Stencil sealing**



**Technical Data**

Density at 20°C	0,8 g/cm <sup>3</sup>
Viscosity at 20°C	5,5 mPas
PH- value at 20°C	not applicable
Solvent contents	100 %
Solubility in water	not soluble
Application temperature	15 - 45°C
Application	pure
Storing frost-free	in original container
Waste key	20 01 13
WPC	1
Hazard classification	GHS 02, GHS 07
Signal words	Danger, Attention
Contains	Propanol-2-ol

**Kolb StenSeal** is an innovative liquid stencil coating for virtually all kinds of metal stencils. The durable protective layer increases the working span of the stencil by a multiple and extremely reduces the cleaning time for the machine washing. Before applying **kolb StenSeal** the thoroughly machine cleaned stencil has to be pre-treated with **kolb StenPrime** priming solution.

Please read for this purpose the application instructions and the safety data sheet.

The **kolb StenSeal** Set contains of:

- 1 bottle of StenSeal - liquid stencil sealing (100ml)
- 2 bottles of StenPrime - stencil primer (100ml)
- 1 Test pen
- 1 package of special cloths
- 10 gloves
- 1 Servicecase

The StenSeal refill package contains of:

- 5 bottles of StenSeal - liquid stencil sealing (100ml)
- 10 bottles of StenPrime - stencil primer (100ml)
- 5 packages of special cloths

**Please note warnings in the Safety Data Sheet and on the product label!**

**For commercial use only!**

Your StenSeal supplier:

**Part No. 090684-RM - Contents: see above**

**Part No. 090684-RM-RP - Contents: see above**

**Made in Germany**



StenPrime



StenSeal



Test pen



Gloves



Special cloths



Starter set



Refill package

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 Fax +49 (0) 2154 9479 - 47  
 e-mail [info@kolb-ct.com](mailto:info@kolb-ct.com)

All modifications due to technical improvements are subject to change without notice.



# StenSeal stencil sealing

## The main questions and answers

**What stencil of which manufacturer is kolb StenSeal compatible with?**

**What stencil materials kolb is StenSeal is compatible with?**

**Kolb StenSeal** is compatible with all common stencil materials (stainless steel and nickel) of all known manufacturers. The compatibility of stencils from materials other than nickel or stainless steel should first be checked with **kolb** or sent in for testing.

**Where can I find an instruction manual for use of kolb StenPrime / StenSeal?**

**Where can I find the safety data sheet to kolb StenPrime / StenSeal?**

Each **kolb StenSeal** set and each refill package comes with an instruction manual (see page 4). The corresponding safety data sheet and the instructions can also be accessed on the internet at [www.kolb-ct.com/en/detergents/additives-accessories](http://www.kolb-ct.com/en/detergents/additives-accessories)

**How much often can you print with kolb StenSeal sealed stencils?**

With kolb StenSeal sealed stencils you can print two to three times as long as with unsealed.

**Is the treatment of the stencil with the primer (kolb StenPrime) absolutely necessary?**

Yes. If it is a new sealing or a re-sealing of a scratched or worn sealing: the template must first be treated with the primer.

**How often the surface of the sealing should be tested?**

For secureness, the surface should be quickly tested after each cleaning process with the enclosed test pen.

**Is there a build up on the stencil surface when applying kolb StenPrime and StenSeal?**

**Is there a build up within the fine pitch apertures when applying kolb StenPrime and StenSeal?**

No. The application of the sealing amounts to only millionths of a millimeter and therefore has no measurable impact on the surface of the template, nor to the size of the apertures.

**Can the paste be contaminated by kolb StenSeal?**

**Can the detergent or rinse water be contaminated by kolb StenSeal?**

No. A negative spreading of sealing particles cannot be measured either in the paste, the detergent or in the rinse water.

**Does kolb StenSeal include nano particles?**

No. Kolb StenSeal does not contain any nano particles and is fully REACH compliant.

**Do both sides of a metal stencil have to be coated with kolb StenPrime / StenSeal?**

No. It is entirely sufficient to seal the printing side of the stencil.

**How many stencils can be sealed with a 100 ml bottle of kolb StenSeal ?**

Usually 20-25 stencils, depending on their size and whether the complete template or only the actual layout will be sealed.

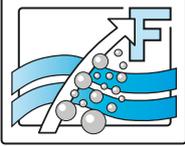
**Can the StenWipes lints clog the apertures of the stencil?**

**Kolb StenWipes** are lint-free special cloths that therefore exclusively should be used for the sealing process.

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# StenSeal stencil sealing

## Instruction manual

**Kolb StenSeal** is an innovative liquid stencil coating for virtually all kinds of metal stencils. The durable protective layer increases the working span of the stencil by a multiple and extremely reduces the cleaning time for the machine washing.

**Kolb StenSeal** is applied as follows:



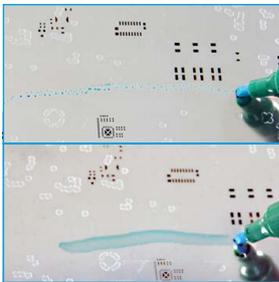
### Pre-treatment:

Before applying **kolb StenSeal** the thoroughly machine cleaned stencil has to be pre-treated with **kolb StenPrime** priming solution and the enclosed applicable wipes. Then wipe the stencil with a dry cloth.



### Coating:

Spray **kolb StenSeal** impregnation fluid evenly on the stencil until it is well moistened. Subsequently polish the stencil with the supplied special cloth (mandatory for application) until it is dry and streak-free. Afterwards leave the stencil for about 10 minutes before using it.



### Testing:

**Kolb StenSeal** can be repaired easily, if damaged by scratches, alcalis from cleaning or excessive heat. **After the first cleaning** the integrity of the sealing can be simply checked with the enclosed test pen.

Picture above - the marker line is disrupted: the sealing is intact.

Picture below - the marker line is solid: the sealing is worn out. In this case the stencil has to be sealed anew with **kolb StenPrime** (see: Pre-treatment) and **kolb StenSeal** (see: Coating).

### Notes:

- Please abstain from intermediate cleaning of the stencil with isopropanol (2-propanol) or other solvents as this would destroy the coating.
- Please use always and only the enclosed gloves and special wipes. Other fabrics could have a negative impact on the protective layer or can prevent a proper sealing.
- Please note the attached safety data sheet.

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