

Technical Note TN0013

Self-Adhesive Sensor Spots

1 GENERAL INFORMATION

All sensor spots are also available with a self-adhesive glue (**-ADH**) on the backside of the spot for easy integration into your vessel. This glue belongs to pressure-sensitive adhesives and therefore do not undergo a chemical reaction for curing of the glue.

Adhesion of the spots to certain materials (glass) may be limited when used in aqueous solution.

The adhesion strength is depending on:

- Surface material of your vessel
- pH value of the solution
- Flatness of the surface
- Stirring speed

Surface material

- The spots will adhere to PE, PP, PET, PC, PMMA etc. without restrictions
- The spots will NOT adhere to silicone surfaces
- The spots will adhere to glass with restrictions

Restrictions for using glass:

- A high pH (>9) may lead to faster detachment of the spot.
- The surface should be as flat and clean as possible. Highly curved containers (e.g., 25ml glass vials) are not suitable.
- The strength of the adhesion builds up gradually over 24h. The spot should not be used right after mounting. Wait 24h after sensor integration (before calibration and measurements).

For **gas** measurements, the spots can be used right after mounting the spots into your vessel (glass and plastic).

If self-adhesive spots are not suitable for your application, please refer to the standard sensor spots which can be integrated using silicone glue (item no. **SPGLUE**).

2 MOUNTING OF THE SENSOR SPOT

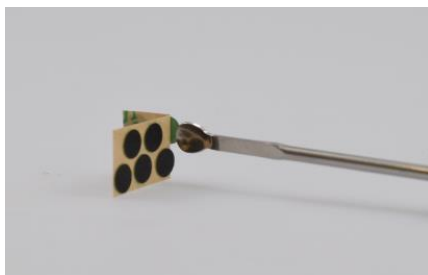
STEP 1

The self-adhesive spots come on a brown protective liner paper. Fold the liner so that one spot partially detaches from the paper.



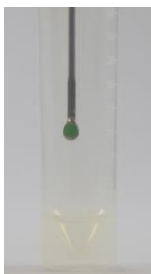
STEP 2

Take the spot at the outer rim only using a spatula or a tweezer. Do not touch the adhesive layer.



STEP 3

Place the spot into your clean and dry vessel. Apply pressure on the spot using a flat spatula in order to ensure removal of air bubbles and to increase the adhesion. Apply the pressure for about 1-2 minutes. Be careful not to scratch the sensor surface.



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