

INSTRUCTIONS FOR USE OF FLUOROPLASTIC-ETCH®

Surfaces

The Teflon® surfaces to be treated must be clean, dry and degreased. Use a solvent such as acetone or MEK. Do not use water or alcohol.

Product

Before each use, we recommend slightly warming Fluoroplastic-Etch® using a hot water bath for a few minutes. Next, dry the bottle completely to make sure that no water residue is left on it. Water makes the product unusable. Shake the bottle of Fluoroplastic-Etch vigorously before use.

Treatment by immersion

Pour the desired amount of Fluoroplastic-Etch® into a container. Using clean, dry tweezers, take the Teflon® part you wish to treat and immerse it in the Fluoroplastic-Etch®.

The soaking time varies from a few seconds to 1 minute.

The duration of the reaction is determined by the concentration of the product and by the temperature of use.

After immersion, the color of the etched Teflon® surface will darken.

Remove the piece of Teflon® from the container with dry and clean tweezers.

Now rinse the piece of Teflon® with water.

Cleansing

Additional cleansing of the Teflon® can now be done with Acetone, MEC or Toluene.

To ensure that the piece of Teflon® is completely clean, you can rinse it one last time with warm water.

Dry the treated piece of Teflon® with a clean towel.

You can now bond the piece of Teflon® to any other material!
At this point, the Teflon® surface will have an adhesive capacity.

Points of consideration

If you will be bonding the Teflon® more than 48 hours after treatment, we recommend that in the meantime you cover it completely with a black film. When exposed to light, the UV rays could affect the etched surface. If you cover the surface properly, you will be able to bond the treated pieces, even after several years.

For larger quantities and surfaces, we recommend that you always use FLUOROPLASTIC-ETCH® in a nitrogen (N) atmosphere or in another dry environment.

It is important that the product gets as little as possible exposed to humidity and air.

The solution immediately becomes unusable when it comes in contact with moisture or in a room with excessive humidity.

You can use FLUOROPLASTIC-THIN® to dilute the product. This allows you to reduce the viscosity when, for example, you are treating very thin tubes or cavities. The maximum ratio is 2:1 (Etch/Thin).

FLUOROPLASTIC-ETCH® is supplied in polyethylene bottles with a capacity of 250, 500 or 1,000 ml.

We recommend that you store FLUOROPLASTIC-ETCH® in a bottle that is completely full. A partially empty bottle reduces, even after only a few minutes, the working power of the liquid.

After you have used FLUOROPLASTIC-ETCH®, you can press the polyethylene bottle to remove all the air. You can perfectly use the rest of the etching product at a later moment, since it hasn't been (or only very briefly) in contact with air (humidity).

With 1 liter of FLUOROPLASTIC-ETCH® you can etch approximately 8 m² in optimal conditions.

PRECAUTIONS:

FLUOROPLASTIC-ETCH® is highly flammable and must be kept away from any heat source. The product is classified in the risk class RID/ADR 3/3b.

In a moist environment, FLUOROPLASTIC-ETCH® forms Sodium Hydroxide (NaOH). In case of contact with the skin you should therefore immediately rinse it with plenty of water. We strongly recommend that you wear rubber, chemical-resistant gloves and closed safety glasses when using FLUOROPLASTIC-ETCH®. To avoid any danger, it is necessary working with the product in a sufficiently ventilated room, with adequate ventilation. The maximum concentration - measured with a Draeger 67 30 501 counter - will not exceed 200ppm (MAK).

All the information and advice we give above are based on our experience to date and are given in good faith. The manufacturer, however, declines any responsibility. The data and parameters should always be verified by the user, since only the user himself can judge the real effectiveness of a product. The user can only do this if he or she can examine or verify all data on site.