

FIXODROP ES/WR-P 7070-7071-7072

Wash-resistant epilame



Description

Epilamation is a surface treatment intended to lower the surface tension of the support thus preventing the spreading of liquid lubricants. It provides the highest possible degree of security for mechanical precision instruments.

Fixodrop ES/WR-P are the second series of our « Wash Resistance » (WR) epilams that have been specifically developed to improve the resistance to washing for special or precious materials (Gold, Rhodium-plated, Nickel, DLC, etc). These epilams can be applied to all materials, but they will be the most effective on these materials for which they have excellent resistance to washing (see graph on page two).



Technical features (indicative values)

Nano metric film	Invisible
Active material	Fluorinated polymer
Diluent	Ecosolv (Art. 5700)
Density at 20 °C	1,59 g/ml
Boiling point	110 °C
Flash point	non-flammable
Toxicity	non toxic
Ozone depletion potential	0 (ODP)
Atmospheric life time	< 10 days
Thickness epilame film	approx. 3 - 5 nm
Superficial tension	approx. 20 mN/m
Stability epilame film	until 150 °C
Compatibility	All types of materials

Application fields

Fixodrop is successfully used in the following application areas :

- Hydrophobic and oleophobic (epilame) surface treatment for mechanisms, electronic and mechanical parts:
- Precision micromechanics (watch, timer, measuring devices, tools, ...)
- Instrumentation and counters (automotive, aeronautic, naval,...)
- Cameras and optical instruments
- General mechanics (office equipment, fans,...)

Our range

Fixodrop ES/WR-P 7070	▶ Concentrate
Fixodrop ES/WR-P 7071	▶ Ready-to-use solution
Fixodrop ES/WR-P 7072*	▶ Ready-to-use solution

Important : Fixodrop concentrate 7070 may only be dissolved with our EcoSolv solvent.

*This ready-to-use solution is recommended only at a production level with excellent working conditions and regular checks.

Implementation

Preparation of the support before use:

- All parts in contact with lubricants should always be treated.
- Before Fixodrop treatment, all parts must be cleaned and dried. This step is important and strongly influences the behavior of the epilame.
- Fixodrop-treated anchor pallets should be lubricated only after running dry for 1 to 2 minutes.

Dipping application for the epilame film :

- The parts are immersed and slightly shaken for a minimum of 30 seconds in the Fixodrop bath. The epilame can also be applied by spraying.

Drying :

- After immersion the pieces are drained by stirring and immediately dried, preferably by a stream of hot air at about 60 °C.
- This treatment is necessary to guarantee a good homogeneity of the film and the esthetics of the piece.

Advices :

- In order to avoid uncontrolled loss of the diluent by evaporation, the Fixodrop bath should immediately be sealed after each use.
- For large baths a cooling system and solvent recycling is advantageous!
- The cleanliness of the bath is to be checked regularly. In case of appearance of dust or other impurities, the bath should be filtered or changed.

Storage

We recommend keeping Moebius epilames in their original packaging in a clean and dry place, protected from light, ideally at a temperature of 15 to 22 °C. This product can be kept 2 years before opening.



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Contact angles

Measurements of contact angles after epilamization and after 3 consecutive washing cycles with a Rubisol type detergent.

The synthetic universal oil 9010 is used for high precision mechanics. It is representative of horological oils.

Synt-A-Lube 9010

