

# Silflo® : imprint and replica kit

**Silflo® is a silicone-based fluid specially developed for taking imprints and for making replicas**

## Why take imprints?

Some surfaces cannot be measured directly.

**Human skin.** The physiological movements of the body mean that direct measurement is very imprecise. In addition, simultaneous multi-centre tests are often carried out on volunteers in different geographical zones.

**Highly reflective surfaces** cannot be measured directly by a laser sensor, because the laser beam is reflected and therefore is invisible to the CCD detector..

**Surfaces that are cumbersome or difficult to access:** if the measurement sample cannot be placed on the measurement stage because it is too heavy or too voluminous, or if the zone to be measured is not accessible to the sensor (interior of a pump or bore), taking an imprint is the best solution.

## Advantages of the kit

Numerous advantages result from the fact that Silflo® is silicone-based.

**Simplicity.** It is very easy to take an imprint: simply pour out some Silflo®, add some drops of catalyst, mix them with a spatula or a spoon, and the material is ready for use.

**Risk-free:** unlike Epoxy resins, Silflo® is bio-compatible. It was originally developed for taking dental imprints and it is recommended for skin measurements.

**Diffusive:** thanks to its pure white mineral content, Silflo® performs excellently with optical sensors.

**Fidelity:** with its fine texture (the grains of its mineral constituent have a diameter of around 0.1 µm) it reproduces surface features faithfully, including roughness down to 0.1 µm (with a margin of error of 2%).

**Easy removal.** Silflo® is pliable, making it easy to remove from the most complex parts. Once released it resumes its original shape without distortion.

**Non-stick.** Once removed Silflo® does not leave a single trace, unlike hard resins. This means that it can be used on fragile parts and finishes.

## Imprint kit components

The kit includes:

- a bottle of Silflo® (silicone gum).
- a bottle of thinner, for use if the Silflo® is too thick.
- a bottle of catalyser.



Silflo®: imprint kit components



Example imprint of a wrinkle

3D representation of imprint using MountainsMap® software

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