



HOW TO AUTOMATICALLY CLEAN PETERS COATING

CONFORMAL COATING



WHAT IS THE CUSTOMER'S STORY?

The customer looked for a **fully-automatic and eco-friendly cleaning process for removal of conformal coating Peters ELPEGUARD SL 1307 FLZ** from coating frames. Before, they used mechanical force with the usage of a thinner to remove the conformal coating. It was harmful to the worker and to the environment as well. Moreover, the mechanical removal of the Peters coating causes coating frames to become scratched.

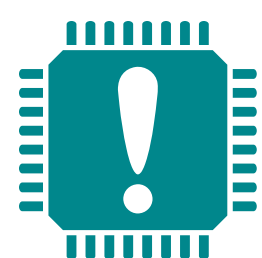




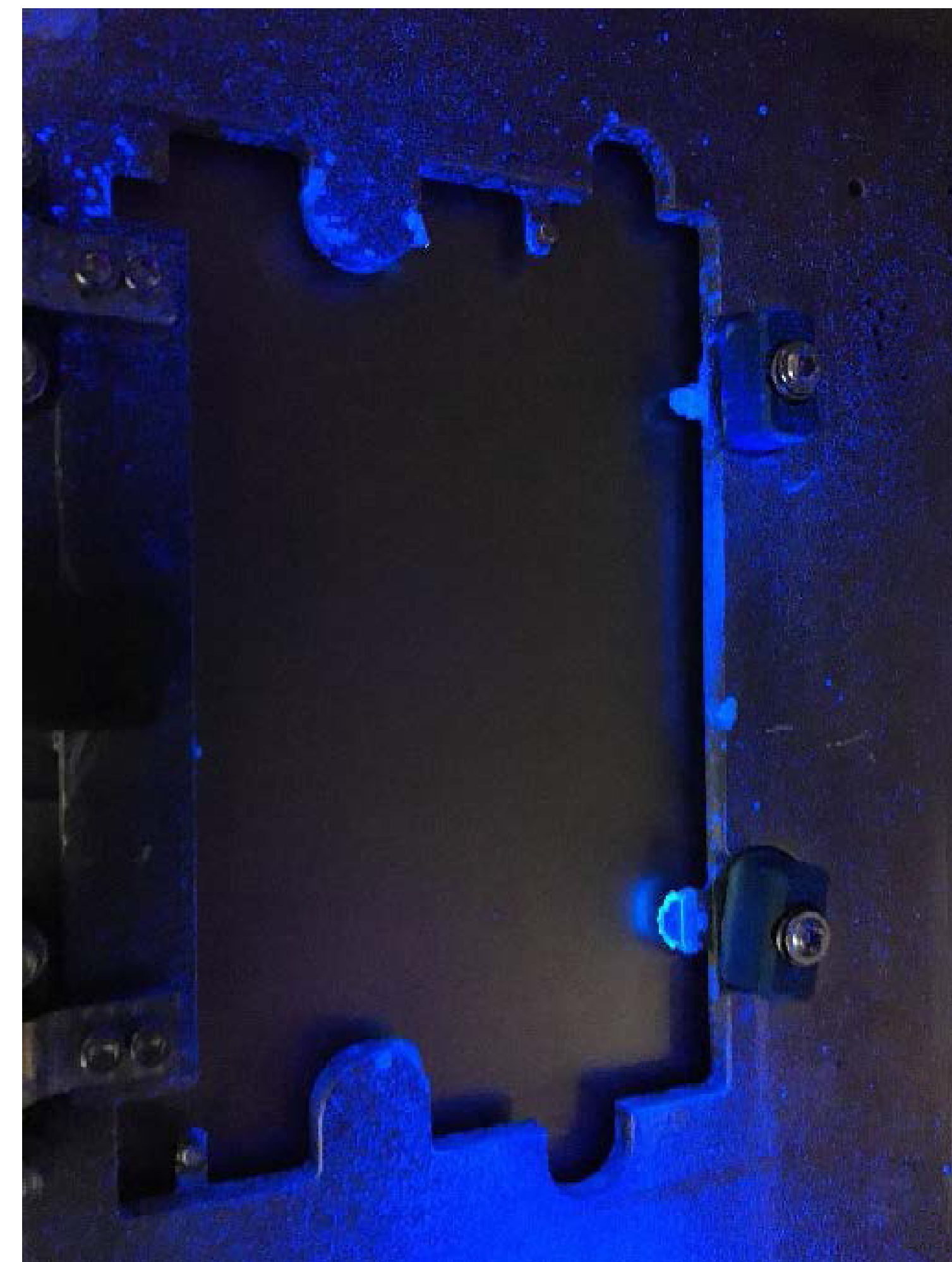
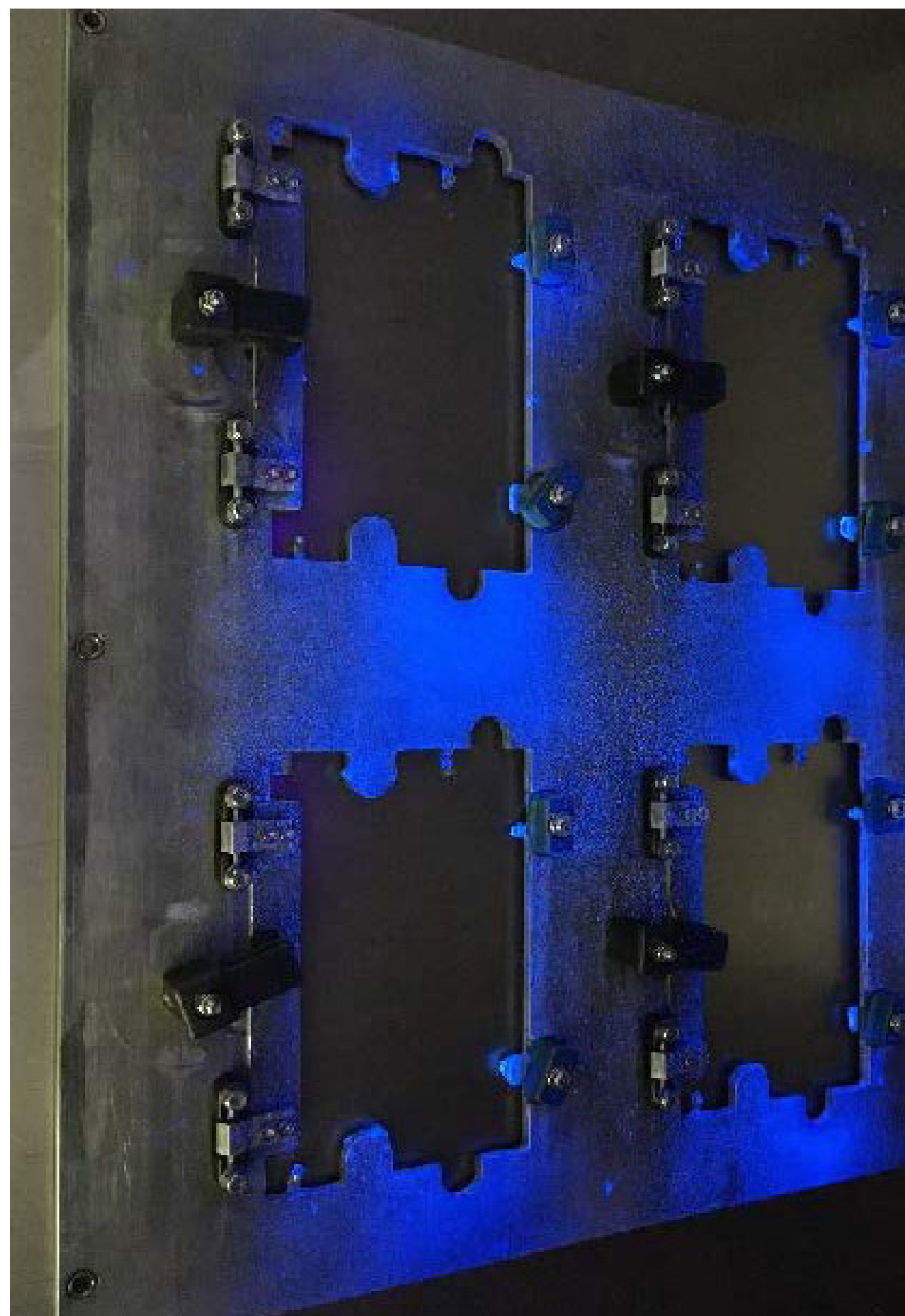
WHAT WE TESTED?

Coating Frames Before Cleaning

Our R&D team tested the cleaning ability of 1 piece of coating frame, which is used during PCB conformal coating with Peters ELPEGUARD SL 1307 FLZ in customer's production.



Peters coating is one of the most common coatings used in the electronic production.





CLEANING SOLUTION BY DCT



Technical data sheet



see our videoreport

Cleaning agent: Proton® 69



Technical data sheet

Clenaing system: Sonix® 355 CRRD



RECOMMENDED CLEANING PROCESS

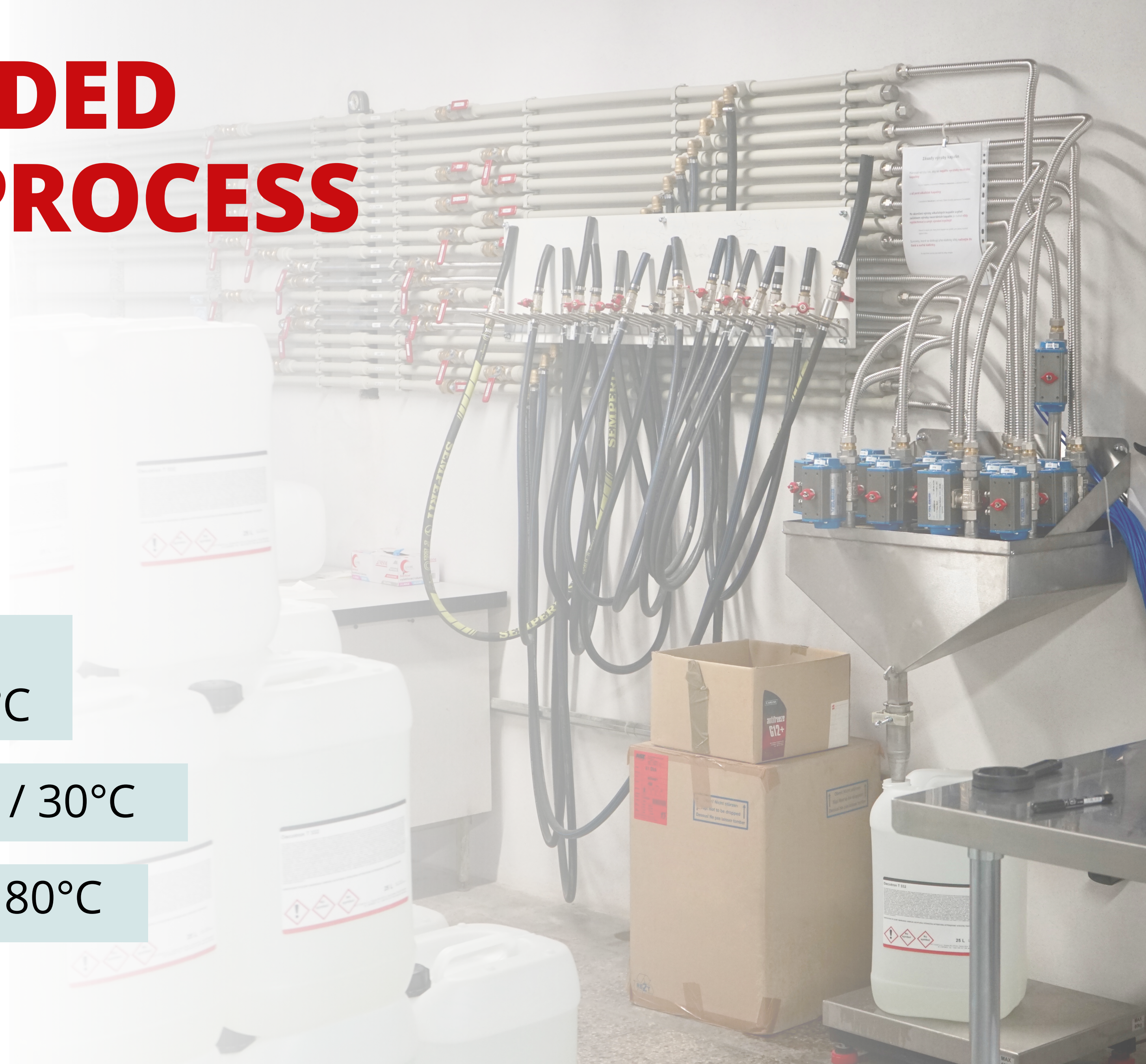
Cleaning machine:
Sonix® 355 CRRD

Technology: ultrasonic

Cleaning:
Proton® 69 / 30 min / 40°C

Rinsing: DI Water / 5 min / 30°C

Drying: hot air / 30 min / 80°C





InJet® vs Sonix®

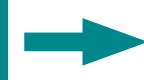


As contamination of coating frames was relatively low, testing in ultrasonic Sonix® 355 CRRD took only 30 minutes. If the cleaning process in the ultrasound cleaning machine is very quick, **it is possible to clean Peters coating also in InJet® series, with Spray-In-Air technology.**

Ultrasonic cleaning systems are the most expensive due too high-tech technology. However, **if the contamination is higher, Sonix® is probably the only reasonable solution** considering the cleaning time, which is always longer in the InJet series.

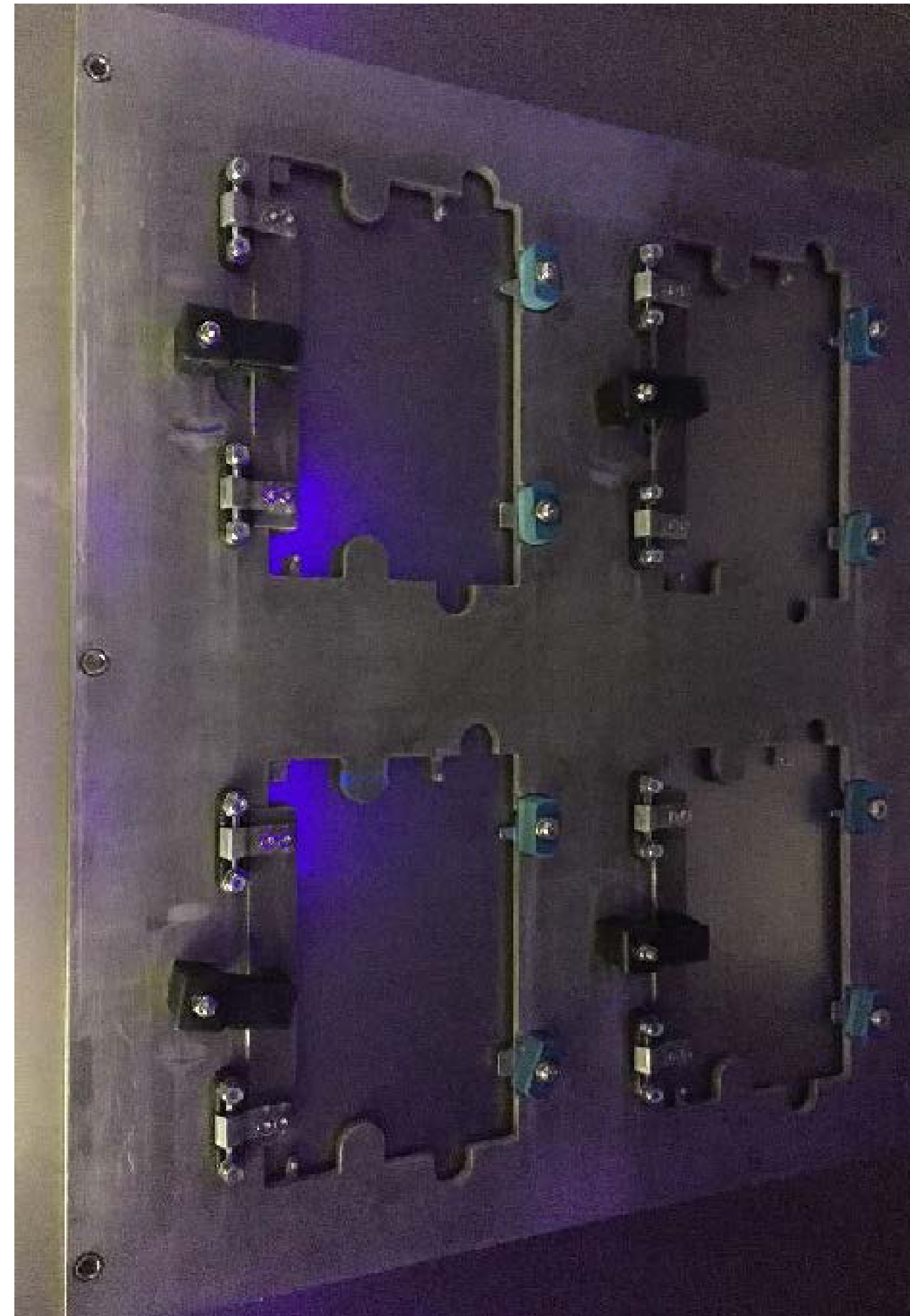
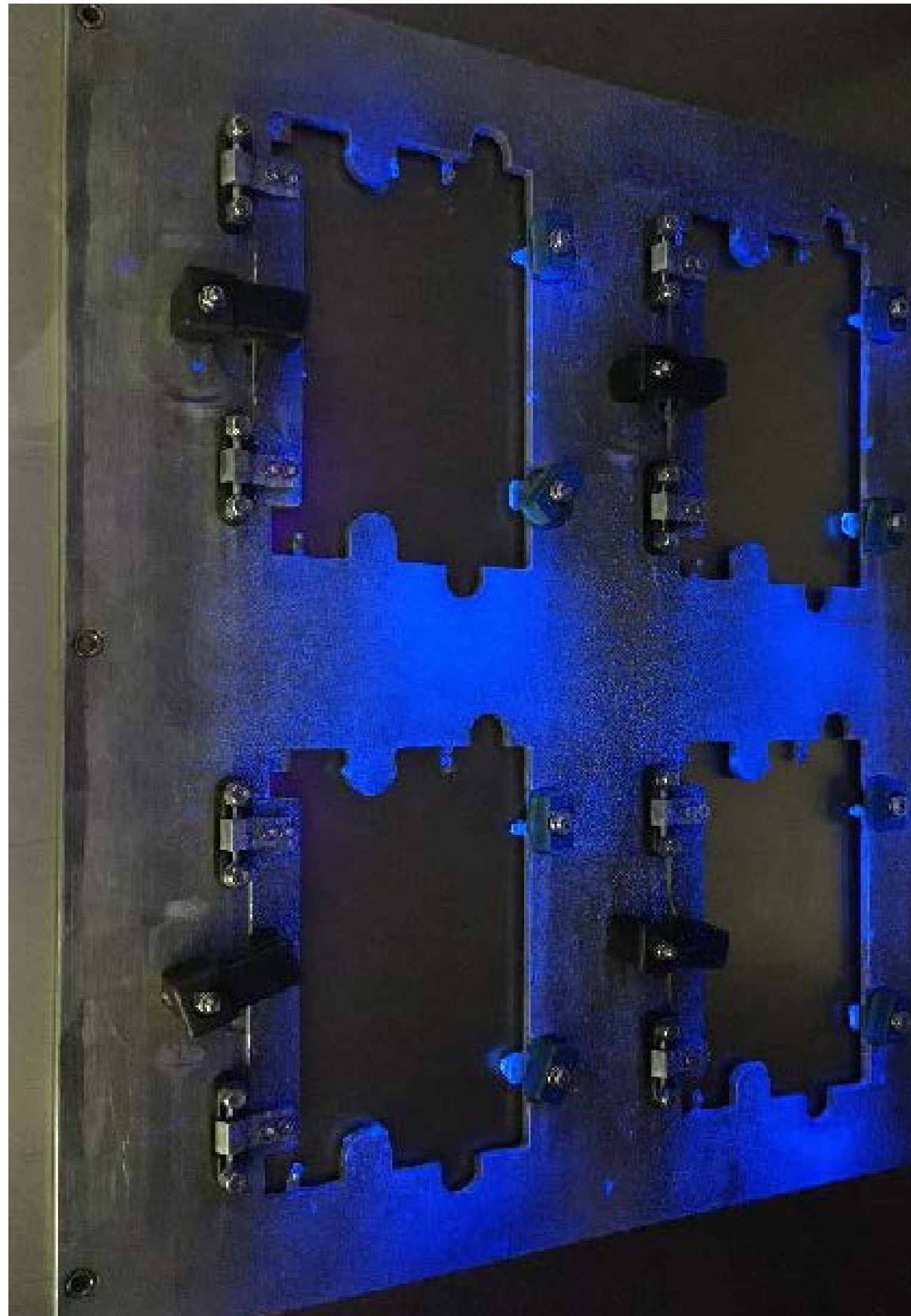
Coating Frames

BEFORE Cleaning



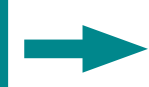
AFTER Cleaning

with Proton® 69



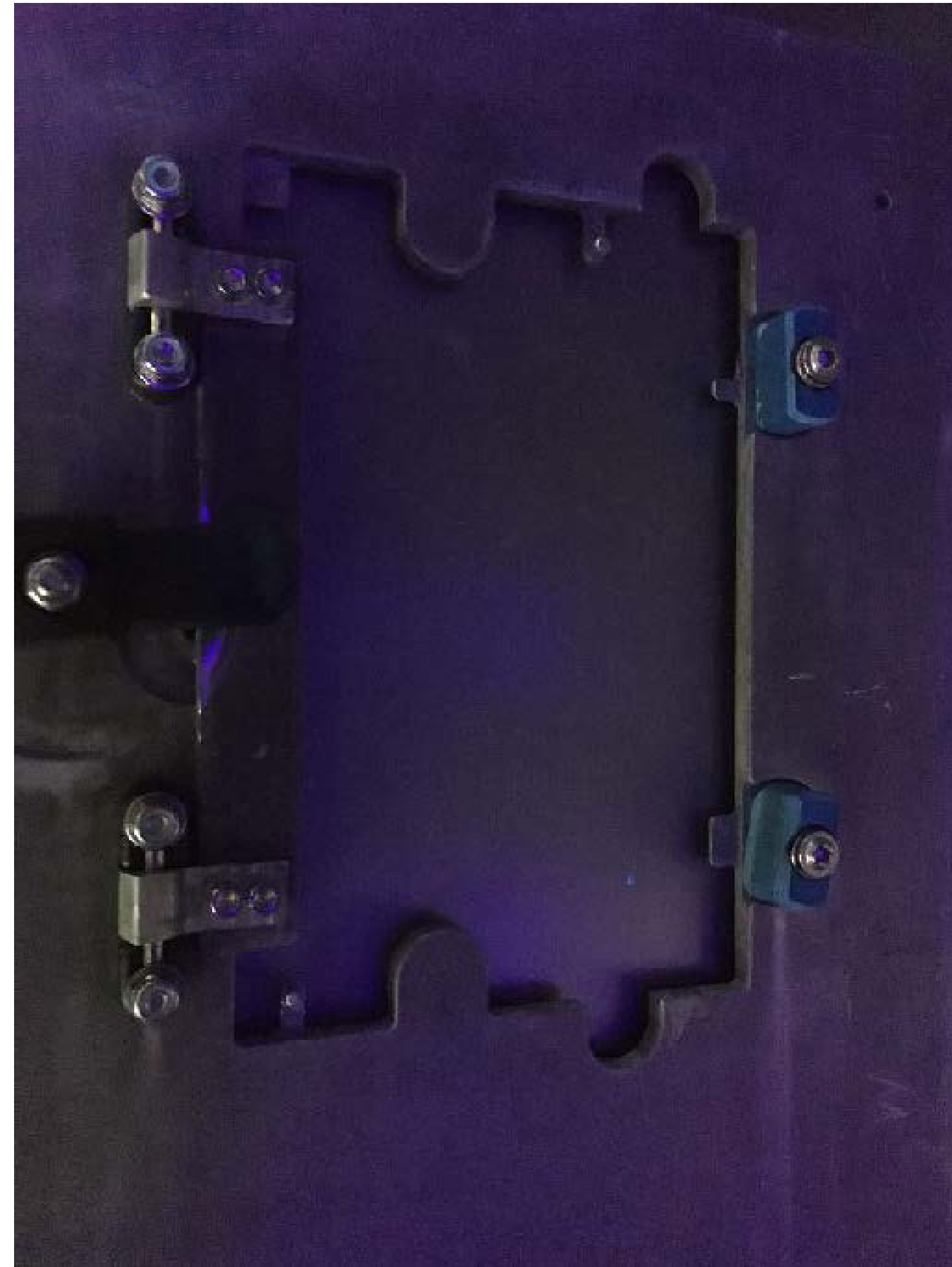
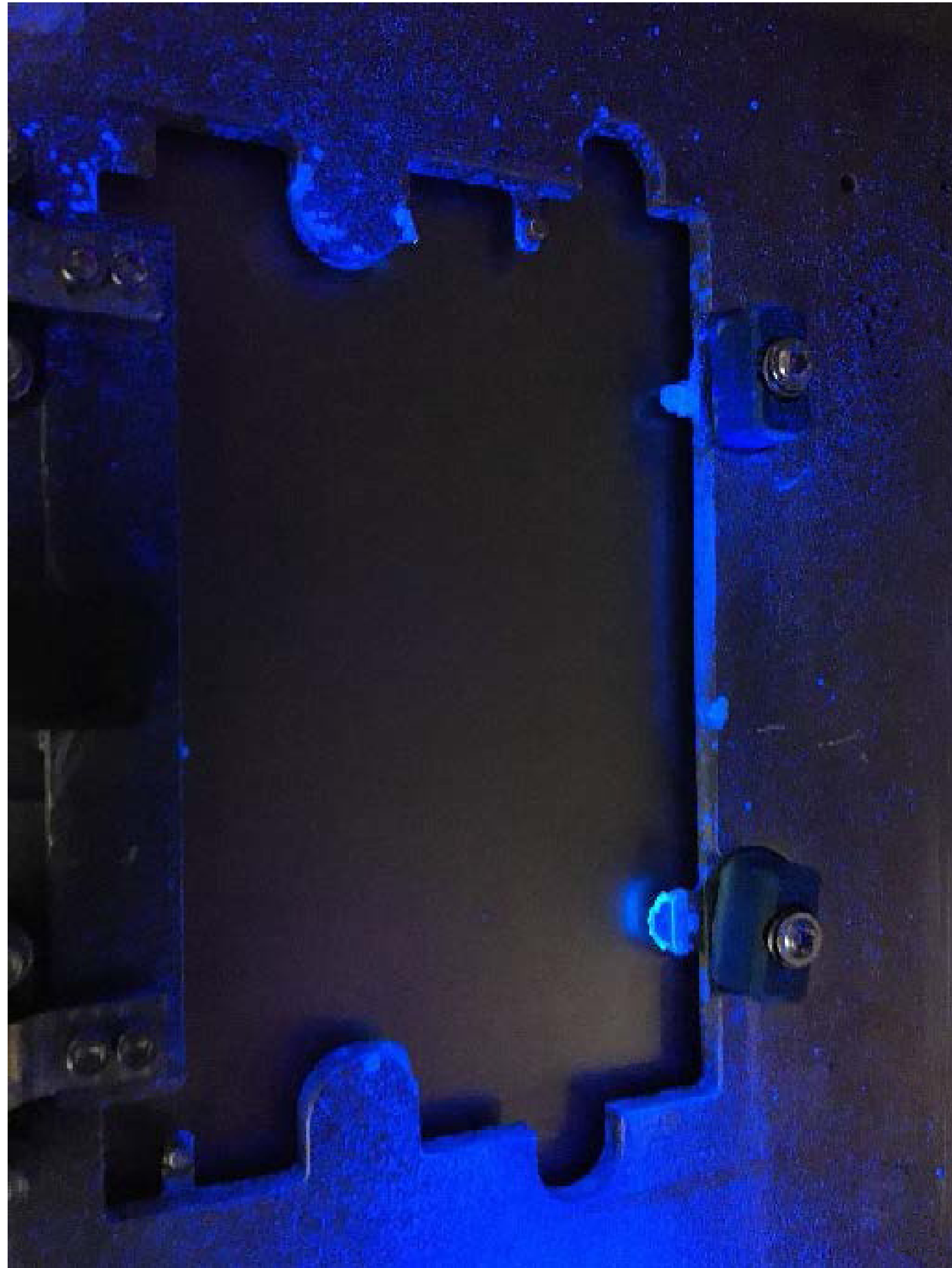
Coating Frames

BEFORE Cleaning



AFTER Cleaning

with Proton® 69



RECOMMENDED CLEANING AGENT

Proton® 69

- ✓ Alcohol-based cleaning agent
- ✓ Determined to remove cured and uncured **acrylic conformal coatings**
From: coating frames, PCBs and components of coating machines parts
- ✓ Clean **uncured epoxy adhesives** from stainless steel stencils and plastic pumpprints
- ✓ Ready-mix, intended for direct use



Technical data sheet

see our videoreport



RECOMMENDED CLEANING SYSTEM

Sonix® 355 CRRD

with ultrasonic technology,
fully-automatic process



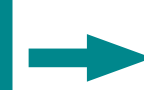
Technical data sheet

- ★★ **Conformal coating** removing
- ★ **PCB** cleaning

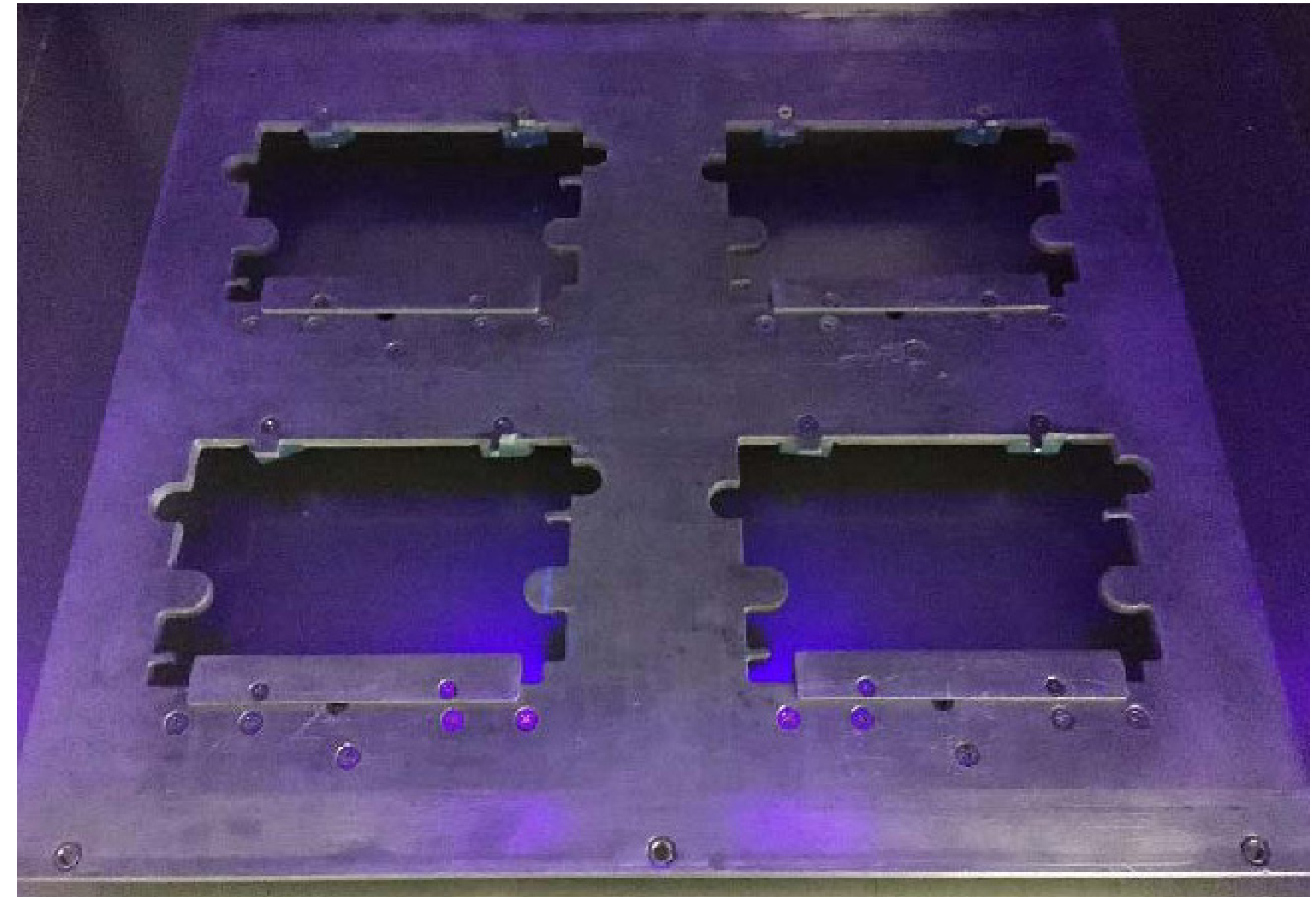
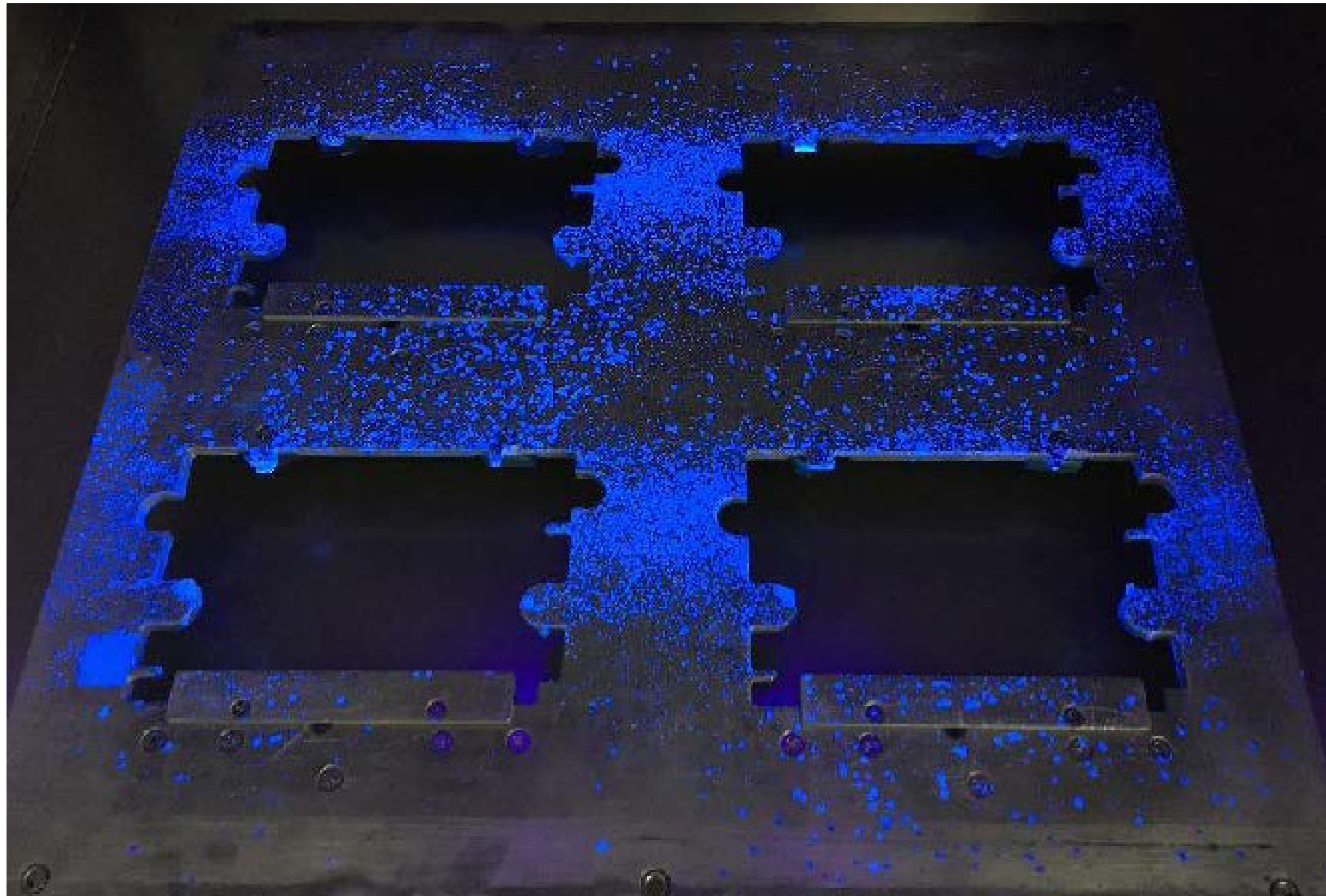


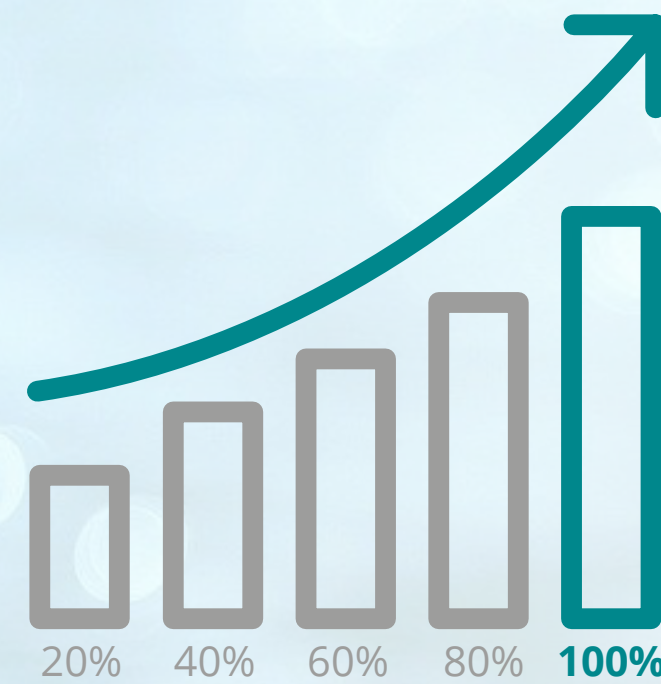
Removal of Peters Coating

BEFORE Cleaning



AFTER Cleaning





RESULTS OF TESTING

Success rate: 100%

The customer has been satisfied we provide **a fully automatic closed system**, which allows the operators to do not come into contact with the fluid.

Possibility to use Injet® series is also a huge benefit for our customer as the Spray-In-Air technology represents fewer costs and reasonable solution in their case, when contamination of coating frames is low.