



## Photonic Cleaning Technologies

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### Pressure Spray Application to Large, Unprotected, Aluminum, First Surface Mirror

Air-pressure spray application to a 1.8 meter hexagonal mirror in the Keck 2 dome atop Mauna Kea. This application was at 14,000 ft (4100 meters) at 32°F (0°C) and 600 torr.

A modified polymer solution was used under these conditions. The special First Contact™ Polymer Solution was applied and removed in about 85 minutes.





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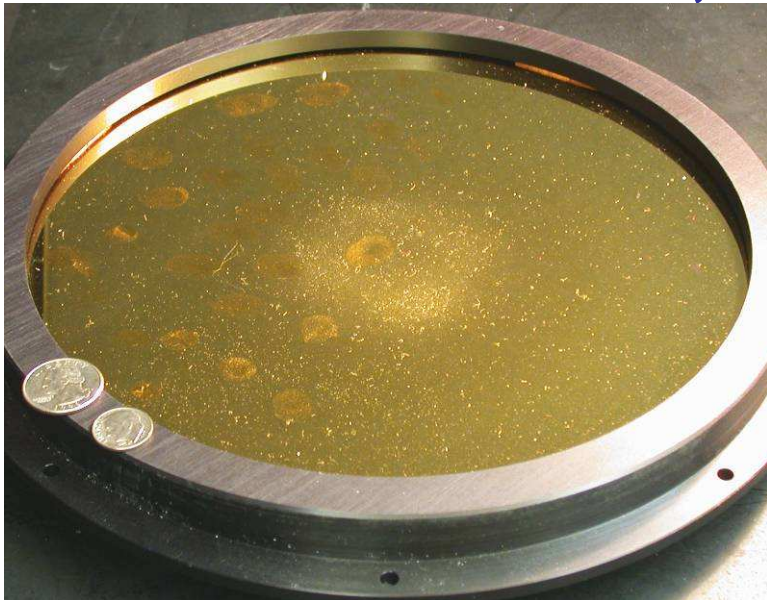
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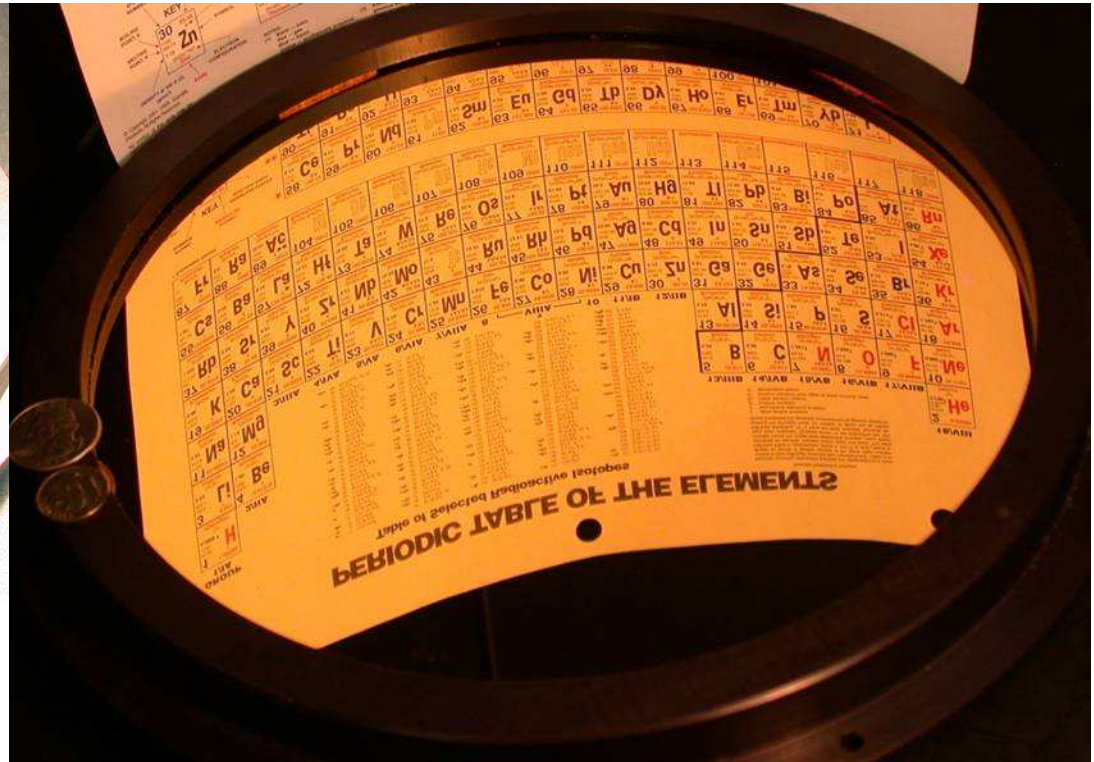
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### Manual Spray Application to Large, Unprotected, Gold, First Surface Mirror



Unprotected Gold mirror from an FTIR. Above is the mirror before treatment with First Contact™.



On the right is the same mirror after treatment with Spray Formula First Contact. The polymer solution was applied using a small spray bottle, available from Photonic Cleaning Technologies, to treat the mirror without ever touching the surface. The solution was allowed to dry for several hours before attempting to remove the polymer film. All contaminants and fingerprints are gone! Note that it sometimes takes more than a single treatment to remove fingerprints and oils.





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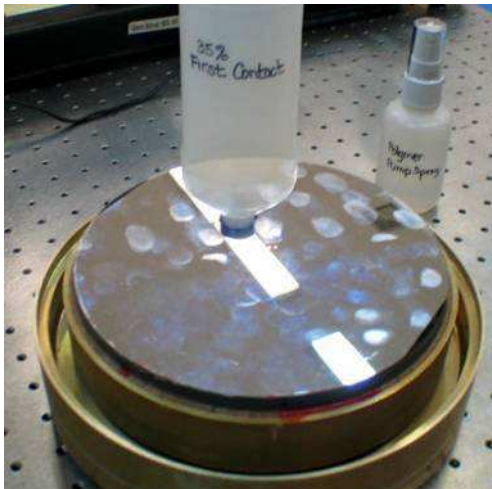
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### Manual Spray Application to 8", 203mm, Protected, Aluminum, First Surface Mirror



From fingerprints to clean using the small spray bottle to apply Spray First Contact™ !

What else can we show you?





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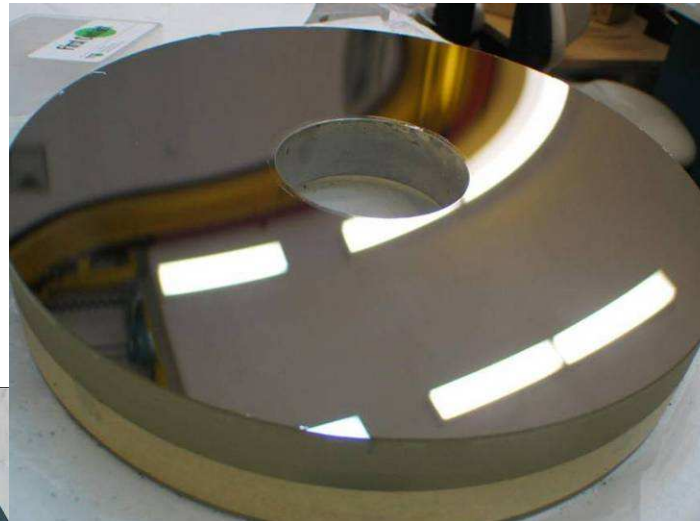
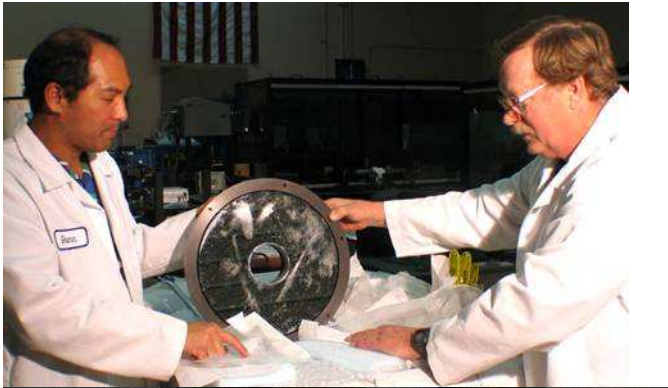
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### Protect against Recontamination!



Here is a 12", 305 mm protected aluminum mirror. It was cleaned with Spray First Contact and then protected from recontamination with a coating of clear First Contact and a Red First Contact Happy Face!



The happy face is optional, but it is worth it to protect optics from recontamination. Just peel the First Contact polymer off the mirror prior to use.