

APPLICATIONS BULLETIN

How Long Does NanoClear® Last?

Users typically report 25K print cycles

Nanoclear durability depends on many factors, including:

- Abrasiveness of wiper paper/fabric
- Wipe frequency
- Solvent or dry wipe
- pH of under wipe and off-line cleaning solvents
- Solder paste chemistry
- Wiper pressure against stencil

Tips to Enhance NanoClear® Durability:

nanoclear is very chemical and abrasion resistant, but coarse under wipe papers designed for uncoated stencils can scratch the coating of the foil over an extended period of time.

- Softer papers are more effective at cleaning stencils and preserving the thin coating. Examples of less abrasive papers include DEK ECO roll, Hyperclean® P4200, or MicroCare® MicroWipe™
- Extending the frequency of under wiping helps limit the abrasion, and is a benefit that NanoClear affords its users.
- Solvent wipe provides lubrication to decrease the abrasion of the wiper textile.
- Higher wiper pressures will increase the abrasion of the wiper textile.
- pH neutral, or pH<9 solvents will not attack most nanocoatings. Solvents with pH>9 will attack both wipe-on and spray-on coatings.
- Any signs of wear will first be visible at the end of the under wipe stroke, where flux gets left behind on the stencil.

See Also [How Can I Tell If NanoClear is Still Effective?](#) Or
[Why Should Softer Under Wipes Be Used with NanoCoating?](#)