

Fingerprint Resistant Surface Coating (FPR)

Custom Architectural Designs, alongside our vendors, offers a new metallic surface treatment that is both advanced and environmentally friendly. This technique was originally being utilized in the aeronautics industry. Through the manufacturing process, the compound attaches to the metallic surface, resulting in a thin but durable protective coating. This coating effectively avoids oxygen or water penetration, enhancing the material's anti-corrosion and fingerprint resist abilities. The use of FPR increases the surface hardness of the stainless-steel sheets drastically.

In addition, the FPR coating provides the titanium coating with an enhanced color finish and increases color stability.

Features & Benefits:

- **Ease of Maintenance:** Solves the issues of fingerprints and cleaning on stainless steel. Easy maintenance can be accomplished simply with a clean cotton towel or soft cloth.
- **Increase Surface Hardness:** Regular stainless steel is rated 2H~3H by Pencil Hardness Tester. The FPR treatment causes the surface hardness to triple and reach at least 8H hardness. This decreases the chances of surface scratches.
- **Anti-Corrosion Rating:** Tested and proven by SGS, plain 304 stainless can resist up to approximately 400 hours in the salt spray test. Whereas, regular stainless steel can resist up to approximately 600 hours or more. Stainless steel with FPR treatment can resist up to approximately 1,200 hours or more. Therefore, with the FPR treatment, the lifespan of stainless-steel sheets can be extended dramatically.
- **Anti-Chemical Substances:** Strong acidic and basic alkaline substances are extremely fatal for stainless steel with cement being one of the most observed. The SGS chemical substance testing report shows that after the FPR treatment is done. The steel has an extra exterior coating to protect against such substances. There is a noticeable improvement in decreasing the risk of corrosive chemical substances damaging stainless steel.
- **Laser and High Temperature Cutting Friendly:** Regular transparent coating on stainless steel cannot resist laser cutting and often leave obvious burn marks on the surface. However, after the application of FPR treatment, laser cutting on stainless steel no longer leaves burn marks or imperfections on the metallic surface.
- **Adhesion Test:** Passed 100% cross-cut test, after the FPR treatment, the material can be bent or folded, and still retains the same physical properties of plain stainless steel.