

# FG3

## Maintenance and cleaning guide for Fine Guard 3 coated Stainless Steel sheet. (Precaution for use)

FG3 treatment is 1 μm Thick hydrophilic layer and it is a silica inorganic substance on the decorative stainless steel sheet.  
It shows high resistant against dirt and fingerprints. Please follow next items for maintenance and cleaning.

### < Daily maintenance >

- (1) **Brush off carefully bigger dirt and sand on the surface with soft clothes without making scratch mark on the sheet.**

There is fine dimple on the surface of FG3. You may feel roughness but this has effect of inconspicuous of fingerprint. It is not dirt.

- (2) When dirt, fingerprint, etc. become remarkable, **wipe off the surface lightly with wet soft clothes or absorbent cotton without making scratches.** If you can not clean easily, moisten the dirt on the sheet with water for a while and wipe off latter. So that you can take out dirt by wiping lightly. If water is repelled and difficult to penetrate, rub water lightly over the surface for several times with wet clothes. It makes the dirt come off gradually.



- (3) After cleaning dirt, **wipe with dry clothes carefully and make dry off the sheet.**  
Do not scrub strongly.  
(If you leave the sheet wet, water may cause some stains.)

\* Do not spill water to peripheral area of sticker.  
The sticker may peel off.  
(wipe with dry clothes immediately in case the water left on the surface)



### < Heavy stain >

- (1) When water-repelling come out, wipe with water several times.  
(2) Clean with neutral detergent diluted about 10 times in case you can not wash only with water.  
After cleaning, wipe with water.  
(3) If aqueous emulsion resin or paint keep left and become dry, it may be impossible to take out only with water. Use organic solvent in such case even though it is not suitable.  
If you use organic solvent to clean,  
The degradation of resistance against dirt and fingerprint might be occurred because dirt gets into the dimple of FG3 surface by using organic solvent.  
(4) Avoid cleaning with peroxide, alkaline and acid solution.  
(Avoid commercial stainless cleaner containing alkaline or acid, too)

### < Others >

- (1) A dirt may be hard to wipe off under the influence of an adhesive of protective film or sheet. A dirt will be wiped off easily by repeating cleaning with water.  
(2) Particular Dirt may cause damages on FG3 treatment layer if left for a long time without cleaning. Please clean the dirt immediately.

### < Notice for storage and fabrication of FG3 coated stainless steel sheet >

- (1) **Avoid the water wet of FG3 sheet with protective film.** If FG3 sheet gets wet, protect film may be peeled off due to hydrophilic film of FG3.  
(2) **Avoid long term storage of FG3 sheet with protective film.** Under the long term storage or severer condition, surface problem such as stain, fogging and uneven color might be occurred. Also, if there are some air bubbles in the protective film, bubble mark may remain. Please be careful.  
(3) In the machining process such as V notch, protect film might be peeled off if cooling water or machine oil intrude under protective film. In case it occurs, wipe immediately with clothes and reinforce sheet edge with adhesive tape.  
(4) After installing FG3 sheet on the site, in case protect film peel off by wind and rain or protective film is removed during installation, we recommend you to fix protective film by adhesion tape.  
(5) **After installation, in case alkaline materials such as mortar or cement stick on the surface of FG3 sheet, deterioration might be occurred.**  
(6) It is impossible to repair completely when you make deep scratch marks on the sheet.  
We recommend you to put plywood on the FG3 sheet after installation to avoid scratch marks by hitting with other materials  
(7) When you place sticker or adhesion tape (braille sheet etc.) on the FG3 sheet, Adhesion is generally decreased due to characteristic of FG3 sheet. Also, sticker might be peeled off by water intruding by cleaning. Please make the surface dry and check in advance if you place adhesive tape on the FG3 sheet.  
(8) We use protective film on the FG3 sheet when we ship out from our works.  
If you change protective film, use **polyethylene-based film** with acrylic. We recommend NITTO SPV6030. **Do not use Polyvinyl chloride-based film, rubber and vinyl acetate adhesive.**  
(Deterioration of FG3 might be occurred under the influence of plasticizers.)  
(9) We have used successfully HARDLOC, double liquid acrylic, produced by DENKI KAGAKU KOUGYO as an adhesive for FG3 sheet, and "primer + caulking (modified silicon based)" as a caulking compound for FG3 sheet. But please test the chemicals in advance. The property of chemicals vary depending on the maker.

### Cautions:

- Water and/or Oil staying between product and protection film may cause its color changes and/or its peeling off. Please follow this maintenance guidance to avoid such an incident.
- Protection film is requested to be removed within 3 months from product date.

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### Note:

We would like you to deliver this leaflet to your end users and persons in charge of maintenance and cleaning. If you need more leaflets, please contact to sales department at NIPPON STEEL Stainless Steel Art.