



WonderPaint, Inc.
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NuEtch is a hydrofluoric acid generator for limited etching of glass, tile and concrete. A thin film will etch any silica containing surface in 15 seconds. It does not need to be rinsed. Coatings can be applied directly over the etched surface once the etching solution completely dries.

Etching improves coating Adhesion:

Coatings bond to surfaces based on a chemical interaction plus a mechanical bond. Rough and porous surfaces are much easier to "stick to" because of the increased surface area thus more points of chemical and mechanical interaction. Standard methods of roughening the surface include sand-blasting, grinding and acid etching.

On concrete the historical method of etching the surface has been Muriatic (hydrochloric) acid. This attacks the calcium that is in cement. There are several disadvantages to using Muriatic acid.

- Using Muriatic acid is extremely hazardous.
- If the calcium in the concrete is not free then HCl is not effective.
- Soaks into the concrete making it difficult to remove when finished.
- Hard to neutralize or rinse away. Soaks into concrete often causing continuing reaction which can cause coating to release.

Advantages of NuEtch:

- Etches all surfaces such as stone, tile, concrete and glass.
- It only generates the etching compound upon evaporation.
- Doesn't require neutralization or rinsing. Returns concrete to normal 8.5 pH.
- Saves time! You can be applying the coating in hours vs up to a day with HCl.
- Improves coating bond to the surface. Etches not just the cement portion of concrete but also the fillers.
- Sterilizes the surface while etching.

Application:

Apply with a paint pad or tight knap roller. Keep film thin. Do not spray or breath the fumes. Keep ventilation against ones back. On smooth surfaces wipe any residual dust away with damp rag.

Coverage:

200-450 square feet per gallon on concrete depending on texture.
400-650 square feet per gallon on smooth surfaces such as glass and tile.

Typical properties:

Appearance: water clear solution
Solids: 12+/- 2%
pH 4.6 - 5.6

Standard Packaging:

2.5 gallon plastic containers
2 containers per box

Material Safety Data Sheet available at
http://www.wonderpaint.com/pdf/msds/NuEtch_MSDS.pdf