

Tek Gel

gelled muriatic acid for surface profiling

DESCRIPTION

Tek Gel is gelled hydrochloric (muriatic) acid used to clean and induce surface profile on concrete surfaces. Of all the cleaning and profiling methods, Tek Gel profiling is one of the safest, environmentally friendly and least expensive methods. Tek Gel will remove rust, mold, mildew, efflorescence and calcium build up, grease and oil, toxic material (i.e., PCBs, blood, animal/human waste), grease and oil. At the same time, it will profile and open up the concrete surface.

Tek Gel is available in three different concentrations:

Tek Gel HD24

- Most aggressive with 24% gelled Hydrochloric acid.
- Used when 80-100 grit sand paper profile is desired (application of 100% solids coatings not more than 20 mil thick)
- Used when chemical stains (acid stains...Patinaétech) is NOT the coloring system

Tek Gel for Profiling

- Medium aggressive with 20% gelled Hydrochloric acid.
- Used when 120 grit sand paper profile is desired (application of sealers that are applied at of 4-5 mil thick)
- Used when chemical stains (acid stains...Patinaétech) is NOT the coloring system

Tek Gel for Flattooing

- least aggressive with 16% gelled Hydrochloric acid.
- Used before the application of chemical stain (acid stain... Patinaétech) over a machine trowelled concrete surface to open up its pores so that the acid stain penetrates the concrete and reacts with the lime in the concrete to produce beautiful stained concrete colors)

ADVANTAGES

- Ready and easy to use / predictable results
- Single step cleaning and profiling
- Can be applied to horizontal and vertical surfaces
- Very minimal fumes – non flammable
- Generate no silica dust or noise pollution
- Can be neutralized with just water
- No special disposing required
- (can be flushed into common sewer)
- Zero VOC

SUBSTRATE REQUIREMENTS

- Substrate temperature must be a minimum of 50°F

COLOR SELECTION

- Tek Gel colors are Yellow, Red and Opaque depending on the concentration.

APPLICATION

Preparation

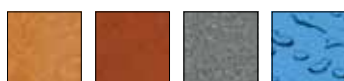
- Use a plastic tarp to prevent unintended etching.
- Tape off all exposed metals.
- Provide ventilation fans if necessary.
- Pre-wetting the surface relieves some heat stress.
- Remove all standing water.
- Outdoor application with drain
- Shake/Stir product thoroughly prior to application
- Product can be applied using non-metallic/acid resistant tools, i.e., squeegee, roller, brush, lambs wool pad, sprayer, etc.
- Evenly broadcast product immediately. Do not allow product to sit in a pile on the surface.
- Let it stand 5-15 minutes.
- Thoroughly remove all expired product with water & flush to sewer.

Indoor without drain

- Repeat the steps mentioned above.
- Using plastic tools pull expired product into a mass & collect into a pail, add neutralizer to pail. Product can be carried off-site for approved disposal.
- Neutralize the surface & thoroughly clean remaining product from surface using wet-vac or mop.

Application over Stencil

- Shake/stir product thoroughly prior to application
- Place the stencil on the surface as per Mfg. instructions.
- Apply Tek Gel to exposed areas of the stencil using a paint brush. For best results and crisp etched detail, avoid breaking the bond of the stencil to the concrete.
- Let the product stand 5-15 minutes. Over polymer concrete overlays, gentle rubbing may be necessary.
- Leaving the stencil in place, collect excess gelled acid into a pail & neutralize before discharging to drain.



- Thoroughly neutralize entire etched area, rinse with water. Rinsing at least twice or thrice is recommended. Ensure that the stencil is still bonded to the substrate while rinsing Tek Gel.
- Leave the stencil in place if accent colorants are to be applied.
- Mix the colorants to Stain Mule, The Stain Carrier, color thickener for color placement control.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with mild detergent and water.

COVERAGE

Tek Gel typically covers 200-400ft²/gal.

AVAILABILITY

Tek Gel is available throughout the United States and Canada. Contact Duraamen representative in your area for details.

LIMITATIONS/COMPABILITIES

Protect all exposed metal surfaces. Products are highly reactive with aluminum, zinc & lead; may create a structural or dimensional instability as well as pitting. Contact on metals may cause damage to metal. Product may cause flash rust on bare metal surfaces. Flush metal immediately with water.

Avoid oxidizers, caustics, fabrics, carpets, metals & marble. This product is not intended to etch through resinous coatings.

Provide adequate ventilation. Humidity will increase product fuming. Excessive heat can cause evolution of gaseous hydrogen chloride. Do not reuse the container. Follow all applicable Federal, State & Local chemical disposal regulations.

FIRST AID

Internal: Drink copious amounts of water. Do not induce vomiting, Seek immediate medical attention.

External: Wash skin with soap and rinse with water.

Eyes: Flush with water for 15 minutes. Seek immediate medical attention. If overcome by vapors, move to fresh air immediately.

TECHNICAL SERVICE

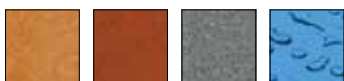
Duraamen Building & Allied Products, Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surface

TECHNICAL DATA

Composition	Hydrochloric acid (16-25%)
Color	Yellow/Red/Opaque
Odor	Pungent
Volatile Organic Content	-0-
Solubility	Infinite with water
Flash point	>200°F
Freeze/Thaw	No effect Store between 380-100°F
Shelf Life	1 year in properly sealed, shipped & stored containers
Health rating	Severe (Corrosive)

WARRANTY

Information regarding Duraamen products is based upon extensive research provided by the supplier of the raw materials. By making such information available, Duraamen Engineered Products Inc. does not assume any liability beyond express terms of our standard limited material warranty. Duraamen Engineered Products does not warrant the accuracy or completeness of any such information, whether conveyed orally or in writing, but to the best of our knowledge believe it to be accurate. We reserve the right at any time and without notice to update or improve our products and process for the intended use or application. Duraamen Engineered Products (Duraamen) warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of Duraamen. If any product fails to meet this warranty, the liability of Duraamen will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Duraamen within 1 (one) year of delivery of materials. Duraamen may in its discretion refund the price received by Duraamen in lieu of replacing the material. No customer, distributor, or representative of Duraamen is authorized to change or modify the published specifications of this warranty in anyway. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Duraamen reserves the right to inspect the non-conforming material prior to replacement EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR PURPOSE. DURAAMEN'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND DURAAMEN SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



duraamen engineered products, inc.

20 Haypress Road, Suite 323 Cranbury, NJ 08512 | duraamen.com | info@duraamen.com | 1.866.835.6595