



# ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

## 1204 ACID CONDITIONER

### P R O D U C T      D A T A

#### DESCRIPTION

1204 Acid Conditioner etches concrete to remove laitance and open surface pores prior to application of thin mil sealers or coatings. It is a proprietary compound which is self-neutralizing, eliminating the need for an alkaline detergent scrub following the etching process.

#### USES

- Horizontal or vertical, exterior or interior concrete, unglazed quarry tile or stone surfaces
- Removes cement paste and laitance from surface while providing an acceptable profile for thin mil sealers and coatings
- Properly prepares surfaces for epoxy, urethane, acrylic and methyl methacrylate coating systems up to 10 mils in thickness

#### ADVANTAGES

- Self-neutralizing, does not require additional applications of neutralizing agents
- Controlled depth of etch provides proper surface for optimum penetration and adhesion of polymer coatings and sealers
- Highly reactive formulation works quickly saving time and labor
- Low foaming for easy rinsing and removal
- Leaves no tracking marks associated with mechanical removal methods

#### PACKAGING AND ESTIMATING GUIDE

1204 Acid Conditioner is packaged in 5 U.S. gallon/ 18.7 Liter pails, shipped 36 per pallet shrink wrapped.

For plain concrete, dilute 1204 2:1 by volume, 2 gallons clean water to 1 gallon 1204/2 L water:1 L 1204.

For hard steel trowelled, dry shake hardened or chemically hardened floors, dilute 1204 with water at a 1:1 ratio, water to acid.

Average coverage rate per coat is 100 Ft.<sup>2</sup> per gallon/ 2.5 M<sup>2</sup>/L depending on surface texture and porosity.

#### TECHNICAL DATA

- Meets the requirements of the U.S.D.A. for use in federally inspected meat and poultry plants, classification A-3

Color	Blue
Application Temperature	33°-95°F      1°-35°C
Fragrance	Sharp acid
Viscosity	Water thin
pH@100	<1
Acid as HCl	28%
Specific Gravity	1.15
Flash Point	None
Foam Test at 50%	low to moderate
Oven Stability	passes
Freeze/Thaw Stability	3 cycles

#### RECOMMENDED EQUIPMENT

- Low pressure sprayer with plastic reservoir can, sprinkling can, mop, plastic measuring container
- Eye protection with splash guards, impervious gloves and rubber apron and boots are strongly advised
- Power washer, hose, wire brush, stiff bristle broom or mechanical scrubber and wet/dry vacuum

#### DIRECTIONS

Cover and protect all metallic surfaces in area to be treated. Remove any materials or equipment, especially electronic or electrical components that might be damaged by acid contact, mist or fumes. Remove any foodstuffs or materials which might absorb acid odor.

**SURFACE PREPARATION:** Surfaces to be treated must be a minimum of 60 days old and free of any dirt, dust, oil, grease, fat or other surface deposits. ChemMasters recommends using its 1201 Citrus Cleaner Degreaser or 1203 Emulsifiable Solvent Cleaner with 1202 Heavy Duty Cleaner Degreaser to clean surfaces prior to treating with 1204 Acid Conditioner. See individual technical data sheets for application methods.



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Prewet area to be treated with clean, potable water to saturated, surface dry (SSD) condition prior to acid washing. Remove any puddles or standing water.

**MIXING:** Always use plastic containers for diluting and mixing 1204 Acid Conditioner and water. Pour measured amount of acid into plastic mixing container or sprayer reservoir, add water at 1:1 or 2:1 ratio depending on existing surface finish. Stir well.

**APPLICATION:** Apply mixed 1204 Acid Conditioner with sprayer or sprinkling can at a rate of 100 Ft.<sup>2</sup> per gallon/ 9 M<sup>2</sup> per liter. Liquid will begin to bubble and fizz on contact with substrate. Lightly scrub 1204 solution into surface using a stiff bristle brush or mechanical scrubber for approximately 5-10 minutes until bubbling stops. Do not allow 1204 Acid Conditioner to dry on surface.

Vacuum residue then rinse 3-4 times with clean, potable water, vacuuming residue after each rinse.

Properly etched surfaces will be dull in appearance and have a texture meeting the ICRI Standard CSP 1-3, similar to fine sandpaper, and shall be free of any residue or loose particles. Any glossy or smooth areas must be retreated with 1204 as outlined above. Dry shake or liquid hardened surfaces normally will require a second acid application.

Allow etched surface to dry 12-16 hours prior to application of any sealer or coating. For optimum results when applying a moisture sensitive polymer coating, test prepared surface according to ASTM D-4263 or with a commercial moisture meter to confirm the suitability of beginning coating or sealing operations.

#### **CLEANUP**

Immediately wash tools and equipment with clean, potable water and alkaline detergent. Do not allow excess material to remain in containers, dispose of immediately according to guidelines on MSDS.

#### **STORAGE**

Store pails in cool, dry area. Shelf life is one year from date of manufacture.

#### **LIMITATIONS**

- Not suitable as surface preparation method for coatings or sealers in excess of 10 mils thick
- Do not use in the presence of foodstuffs or other materials likely to absorb acid odor
- Protect any exposed metallic surfaces. Remove or otherwise protect any electronic or electrical equipment sensitive to acid fumes.
- Do not use on metallic dry shake hardened surfaces
- Always wear recommended protective clothing. Use an acid-gas canister respirator when working in confined or inadequately ventilated areas
- The etching and rinsing process saturates the substrate. Allow sufficient drying time prior to applying moisture sensitive polymer coatings
- Acid etching is not an alternative to proper cleaning and degreasing of substrates
- Local ordinances and project specifications may require total containment of acid residue

#### **CAUTION**

Keep out of reach of children. Severe eye and skin irritant. Avoid contact with skin or eyes. Use with adequate ventilation, do not breathe vapors. See Material Safety Data Sheet (MSDS) for comprehensive recommendations.

***This Product is Formulated and Labeled for Industrial and Commercial Use Only***

*FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT  
THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT*

*We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.*