

# CONCRETE ETCHING/REMOVAL MISTIC ACID

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## TECHNICAL DATA

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### 1.0 DESCRIPTION

MISTIC ACID consists of Hydrochloric acid modified with wetting and foaming agents to allow even coverage of vertical or horizontal surfaces.

### 2.0 PHYSICAL PROPERTIES:

2.1	Colour	Amber.
2.2	Specific Gravity	1.115
2.3	Flashpoint	Non-Flammable
2.4	Viscosity	Low.
2.5	Toxicity	Corrosive. Poisonous.
2.6	D.G. Classification	8
2.7	Shelf Life	Unlimited.
2.8	Coverage	Surface dependent. See under application.

### 3.0 USES

Uses for MISTIC ACID include the following:

- 3.1 Etching of concrete surfaces to give a mechanical key prior to application of surface coatings, or to make surface non-slip.
- 3.2 Removal of cement splashes from decorative or exposed aggregate panels and other surfaces.
- 3.3 Removal of iron oxide (rust) from steel.

### 4.0 APPLICATION INSTRUCTIONS

In case of splashing on to the skin, immediately wash off with water. If eye contact occurs, immediately flush eyes with clean running water for 15 minutes and seek immediate medical attention. The fumes given off by MISTIC ACID are irritating may be harmful if inhaled. Use only outdoors or in a well-ventilated area. Read product label and product safety data sheet before use.

- 4.1 MISTIC ACID may be applied as supplied or diluted with clean water depending upon the application. Dilution will slow the reaction proportionally. Paintbrushes with metal ferrule or metal staples in the bristles should not be used. A cheap unknotted white wash brush or plastic hearth brush should be used. All containers used in the course of applying MISTIC ACID should be made of plastic. Rubber gloves, protective clothing and chemical goggles must be used when handling and applying MISTIC ACID.

# MISTIC ACID

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## TECHNICAL DATA Continued

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### 4.0 APPLICATION INSTRUCTIONS (continued)

- 4.2 Etching of Concrete. To acid etch a concrete floor in preparation for a coating or topping that requires a mechanical key dilute MISTIC ACID in the ratio of 1 part acid to between 1 and 3 parts water depending on the surface finish required. Apply the mixture at approximately 2m<sup>2</sup> per litre and leave the solution foaming until it stops, usually about 5 minutes. A plastic watering can is ideal for large areas. Agitate surface with a stiff broom to dislodge any residue from the surface and then thoroughly flush the surface with copious amounts of water. Vertical concrete surfaces should be treated with undiluted MISTIC ACID.
- 4.3 Thick accretions of concrete are best removed physically before applying MISTIC ACID. MISTIC ACID should be diluted with water to a degree depending on the susceptibility of base material to acid. MISTIC ACID will react with many common metals, including iron, steel, aluminium and zinc. In all situations, a small test on a concealed or unimportant area is recommended. MISTIC ACID should not be used on marble or galvanized steel. Apply solution to the surface as required to remove splashes and flush with copious amounts of water when finished.
- 4.4 Removal of Rust. Apply as required, as supplied or diluted to remove rust and wash down copiously with water when finished. Steel and iron objects will start to rust again very soon after treatment with MISTIC ACID. To prevent this, metal surfaces should be oiled or primed if to be painted immediately after derusting.

### 5.0 PRECAUTIONS

Wear protective gloves, clothing and eye protection when using this product. Use only in a well-ventilated area and use respiratory protection if required. Refer to Material Safety Data Sheet for complete handling and first aid details.

Toxic. Swallowing may be fatal and can result in nausea, vomiting, diarrhoea, abdominal pain, chemical burns to the gastrointestinal tract. Severe eye irritant. Corrosive to eyes.

Contact with skin will result in severe irritation or cause skin burns. Harmful in contact with skin.

Breathing in mist will produce respiratory irritation. Harmful if inhaled.

If MISTIC ACID contacts surfaces not to be etched or cleaned, immediately flush with water.

### 6.0 PACKAGING

4 litre and 20 litre carboys, 200 litre drums.



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