



PRIME HYDROCHLORIC ACID 33%

DESCRIPTION

Prime Hydrochloric Acid (HCl) 33% is a powerful chemical commonly used for cleaning and etching concrete surfaces. When used correctly, it can effectively remove stubborn stains, dirt, efflorescence, and residues from concrete, preparing the surface for sealing, coating, or painting. Here is a concise guide on its application:

PRECAUTIONS

Prime Hydrochloric acid (HCl) is a highly corrosive and hazardous chemical that requires careful handling to ensure safety. Below are the key precautions to follow:

1. Personal Protective Equipment (PPE)

- **Wear gloves:** Use acid-resistant gloves made from materials like neoprene or nitrile.
- **Eye protection:** Always wear chemical splash goggles or a face shield to protect your eyes.
- **Clothing:** Use acid-resistant clothing, including a lab coat or apron, and closed-toe shoes.
- **Respiratory protection:** If working in poorly ventilated areas, use a respirator with an acid gas cartridge.

2. Ventilation

- Work in a **well-ventilated area**, preferably under a fume hood, to avoid inhaling fumes.
- Avoid breathing vapours, which can irritate or damage the respiratory system.

3. Handling Techniques

- **Never add water to acid:** Always add acid to water to prevent violent reactions or splashing.
- Use containers made of acid-resistant materials like glass or polyethylene.
- Pour slowly and carefully to avoid spills or splashes.

APPLICATION / DILUTION

Dilute the acid with water to reduce its strength, typically at a 1:10 ratio (acid to water). Always **add acid to water** (never water to acid) to avoid dangerous reactions.

- Wet the concrete surface thoroughly with water before applying the acid solution. This prevents the acid from penetrating too deeply and damaging the surface.
- Apply the acid solution evenly with a brush or sprayer.

- Let it sit for 5-10 minutes to react with stains and residues. Avoid letting the solution dry on the surface.
- Scrub the surface with a stiff brush to loosen stubborn deposits.
- Rinse the surface thoroughly with clean water to remove all acid residues.
- Dispose of the rinse water and acid responsibly, following local environmental regulations. Prevent hydrochloric acid from entering drains or waterways.

Tips

- Test on a small area first to ensure compatibility.
- Avoid use near metal, as acid can corrode these materials.
- Do not mix hydrochloric acid with other chemicals, especially bleach or ammonia, as it can produce toxic gases.

Prime Hydrochloric Acid 33% is a potent cleaning agent but should be used carefully to achieve optimal results without compromising safety

Emergency Preparedness

- **For spills:** Neutralize small spills with baking soda or lime and clean immediately with water. For large spills, follow your organization's chemical spill protocol.
- **For skin or eye contact:** Rinse immediately with copious amounts of water for at least 15 minutes and seek medical attention.
- **For inhalation:** Move to fresh air immediately. If symptoms persist, seek medical attention.
- **For ingestion:** Do NOT induce vomiting; rinse the mouth and seek immediate medical help.

DISCLAIMER

No responsibility can be accepted or any express or implied warranty given where performance of the product is affected by surface preparation, method of application or any other circumstances beyond the company's control.

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