

Surface Prep Lite

Surface Prep Lite is a less corrosive, non-fuming alternative to traditional etching products used to prepare concrete surfaces for sealing.

1. DESCRIPTION

Surface Prep Lite is an alternative to Surface Preparation for the preparation of concrete floors for sealing. Utilizing the latest ‘acid avoidance’ technology, Surface Prep Lite is non-fuming. The elimination of corrosive fumes of traditional inorganic acids significantly improves safety, especially in interior or poorly ventilated sites. The action on the surface also reduces the chance of over-etching or darkening of the concrete of traditional products. Surface Prep Lite is recommended for the preparation of lighter concrete colours from the PeterFell Range. The milder action had a reduced corrosive effect on paintwork and metal surfaces.

This product guide covers the surface preparation and application of Surface Prep Lite - if there is any question as to the suitability or application of this product please contact Peter Fell Ltd prior to use. Refer to the SDS for full Health and Safety information.

2. PRECAUTIONS

- Surface Prep Lite is a corrosive solution and should be used with care - please ensure all safety guidelines are read prior to use and are strictly adhered to during application.
- Neutralizer & Cleaner should be used in conjunction with Surface Prep Lite to control and neutralize its corrosive activity.
- All susceptible surfaces i.e. walls and joinery, should be protected from splashing during application.
- Ensure runoff during application is correctly neutralized to prevent corrosion of surrounding surfaces i.e. untreated concrete, asphalt etc.
- DO NOT dispose of Surface Preparation Lite down drains or waterways.

3. TEST AREA

Prior to full application of Surface Prep Lite it is recommended that a small test area away from the main visual area of the floor is prepared (following instructions) to ensure that the product is correctly diluted for your application.

Correctly diluted	The Surface Prep Lite ‘bubbles’ lightly on the surface, and following short exposure (<1 min), neutralization, and drying, the area appears free of surface laitance (dusty or ‘chalky’ substance on surface).
Too concentrated	Aggressive bubbling is observed on application of the Surface Prep Lite, and after a short period (<1 minute) concrete starts to corrode, exposing sand grains, then aggregate particles. Following neutralization and drying, concrete appears darker with ‘grainy’ or textured appearance.
Too dilute	Little to no ‘bubbling’ evident following application of the Surface Prep Lite, and following neutralization and drying, the area appears unchanged.

If the concrete surface is still ‘soft’ (if concrete is not fully cured or incorrectly finished) Surface Prep Lite will have a corrosive effect, like that of a ‘too concentrated’ solution.

Always start with the weakest applicable dilution as the concentration can always be increased.

- Conversely, if the solution is too concentrated and adversely alters the concrete surface, the effects are a lot more difficult to remedy, if at all!

If you are unsure about the appropriate dilution or application of Surface Prep Lite contact Peter Fell Ltd before proceeding with the entire area.

4. PREPARATION

The concrete must be clean and free of any contamination prior to application of Surface Prep Lite. Floors can be cleaned with Neutralizer and Cleaner or Concrete Cleaner – see Product Guides for application instructions.

Ensure all susceptible surfaces i.e. walls, joinery etc, are protected from any contact with Surface Prep Lite.

- Polythene or cardboard can be used to protect walls and joinery
- Neutralizer & Cleaner can be used to wipe down other surfaces to protect from splashes.

5. EQUIPMENT

- Polythene sheet or tray (placed under watering cans when diluting the surface preparation).
- Plastic watering can (x2).
- Hose (or source of fresh clean water).
- Broom – soft bristle
- Neutralizer & Cleaner (prepared diluted solution)
- Wet and Dry Vacuum cleaner (interior floors only).
- Safety Equipment – see section 8. Personal Protective Equipment.

6. APPLICATION

Dilution:

- Dilute Surface Prep Lite with clean water to the appropriate concentration.
 - ALWAYS add Surface Prep Lite to water (not the other way around).
- Place watering can on polythene sheet or soil off the concrete surface
 - Any spills of concentrated surface preparation will burn the concrete surface, so prepare all solutions away from the concrete surface.

Strength	Dilution (Prep:water)	Description
Mild etch	1:3	Recommended for preparation of internal floors, or areas with minimal surface laitance. Will not significantly alter texture of the floor.
Medium etch	No dilution	Recommended for preparation of internal or external concrete surfaces where laitance is evident on the surface.

- Prepare 1:20 dilution of Neutralizer & Cleaner in the second watering can.
 - This solution is used to ‘neutralize’ the effects of Surface Prep Lite, enabling tight control of the etching process.

Application:

Apply Surface Preparation Lite to small areas at a time (initially 2 - 4 m²) and start away from main parts of the floor to get comfortable with procedure.

- Prepare diluted solution of Surface Preparation Lite and Neutralizer & Cleaner as described above.
- Wet down area with clean water, making sure water is ALWAYS visible on the surface where Surface Preparation Lite is applied.
- Disperse solution with watering can in a controlled motion.
 - Solution can be moved around with soft bristle broom, ensuring solution is spread evenly over surface.
 - Take care not to ‘sweep’ aggressively as this will damage the concrete surface.
 - Care must be taken NOT to exceed area which has been pre-wetted.

- Once initial reaction has stopped (typically 1-2 minutes), treat area with Neutralizer & Cleaner, leave on surface for a few minutes (solution turns 'milky' in patches).
 - Internal surfaces: Vacuum up with wet and dry vacuum.
 - External surfaces: Use excess water to wash solution off concrete surface ensuring runoff does not go down waterways, or onto areas susceptible to pH changes i.e. gardens.
- Repeat process over whole area to be treated, remembering to keep surface wet.
- Once complete, rinse floor with clean water, using wet and dry vacuum to remove from the interior surfaces.

Coverage:

- Coverage is dependent on dilution rate.

Clean-up:

- All equipment should be neutralized and cleaned with appropriately diluted solution of Neutralizer & Cleaner.
 - Ensure runoff does not go down waterways, or onto area's susceptible to pH changes i.e gardens.

7. STORAGE AND HANDLING

- Pack Sizes:* 1, 2, 5, 10, and 20 L.
- Handling:* Wear suitable protective clothing (see section 8. Personal Protective Equipment).
- Storage:* Store in cool, dry, well ventilated place in original container. Store out of reach of children. Protect against static discharge. Store away from direct sunlight, oxidizing agents (e.g. nitrates, peroxides, hypochlorites), acids, anionic detergents (e.g. soap), heat sources and foodstuffs. Ensure container is sealed when not in use and checked regularly for leaks or spills. Do not allow vapours to collect in enclosed spaces. Surface Preparation Lite can be stored for up to 12 months.

8. PERSONAL PROTECTIVE EQUIPMENT

- Eyes:* Avoid contact with eyes. Use safety glasses and/or chemical splash goggles.
- Skin:* Suitable protective workwear e.g. cotton overalls buttoned at the neck and wrist is recommended. Chemical resistance apron is also recommended where large quantities are handled.
Protective gloves are recommended. PVA or Viton/Butyl gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Open cuts abraded, or irritated skin should not be exposed to this material.
Rubber safety boots.
- Respiratory:* A respirator is recommended. Use a respirator with an acid gas cartridge and a full-face mask. Ensure that the cartridges are correct for the potential air contamination and are in good working order. Refer to MSD for full safety information.

Refer to the SDS for full Health and Safety information.

9. FIRST AID

- Swallowed:* DO NOT induce vomiting. Give water or milk to drink. Obtain medical attention immediately. For emergency information contact the *National Poisons Centre (0800 764 766)*.
- Eyes:* Immediately flood with copious quantities of water, holding eye open if necessary, for at least 15 minutes. Seek urgent medical attention.
- Skin:* Remove contaminated clothing and shoes and wash skin thoroughly with soapy water. If irritation occurs or persists, seek medical attention. Launder clothing and clean shoes before re-use.
- Inhalation:* Remove patient from exposure, keep warm and at rest. If there is respiratory distress, give oxygen and seek immediate medical attention.

10. PHYSICAL PROPERTIES AND IDENTIFICATION

<i>Appearance:</i>	clear hazy liquid
<i>pH:</i>	<1
<i>UN Number:</i>	3265
<i>HSNO Approval:</i>	HSR002491
<i>Hazchem code:</i>	2X
<i>DG Class:</i>	8
<i>Packing Group:</i>	III

PRODUCT WARRANTY

The information contained in this document is true and accurate to the best knowledge of Peter Fell Ltd. We cannot however anticipate all conditions under which this information and our products may be used. Peter Fell Ltd therefore accepts no responsibility and offers no warranty with respect to results obtained by the application of our products, their suitability, or for their safe use. Peter Fell Ltd offers our products for sale subject to, and ‘The Customer’ and all users are deemed to have accepted, our Terms and Condition of Trade. Peter Fell Ltd warrants our products to be free of manufacturing defects. If the product when purchased was defective and was within recommended storage life when used, Peter Fell Ltd will replace the defective product with new product without charge to the purchaser. Peter Fell Ltd makes NO OTHER WARRANTY, either expressed or implied, concerning our products.