

Surface Conditioner

Surface Conditioner prepares and conditions concrete sealed with Glaze and Satin sealers for re-sealing.

1. DESCRIPTION

Surface Conditioner is applied to concrete surfaces sealed with Glaze or Satin sealer to condition or 'prime' the surface for re-sealing. This specially formulated acrylic solution has a low solids content for increased penetrants, and a slow drying carrier to maximise reaction time on the surface. Treatment with Surface Conditioner will significantly improve adhesion of the new sealer, prolonging sealer life, and improving sealer performance.

- Applications:*
- Applied to concrete surfaces sealed with Glaze or Satin sealer for re-sealing.
- Characteristics:*
- Increased penetration and prolonged surface interaction conditions the concrete for re-sealing.
- Limitations:*
- Not a sealer – sealer must be applied over Surface Conditioner
 - Will not repair damaged sealer
 - Sealer will not adhere to smooth stone surfaces – test areas must be conducted on ground or exposed aggregate to ensure adhesion, particularly on trafficable surfaces.
 - Does not act as a filler – cracks and defects must be repaired prior to application.

This product guide covers the preparation and application of Surface Conditioner - 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

- Do not apply to contaminated or badly damaged surfaces
- Do not apply to concrete surfaces that are not *completely* dry.
- Do not apply if the concrete temperature (not atmospheric) is below 12°C or above 30°C.
- Do not apply in the middle (hottest part) of the day or in high humidity.
- Do not use as a filler – any cracks, pitting or pinholes must be treated prior to application.
- Clean up any spills immediately to avoid staining.

3. TEST AREA

Prior to application of the Surface Conditioner it is recommended that a test area is conducted first.

This test area is to ensure that the conditioner adheres correctly to the surface with an acceptable finish

It is recommended that test area of 0.5 - 1.0 m² is executed according to the following protocol.

- Do the test area in a discrete part of the concrete that will be covered or hidden when the job is complete i.e. on side paths or under any fixtures.

Test pots and small volumes of all the sealer, preparation and cleaning products are available from Peter Fell Ltd.

4. PREPARATION

The concrete must be clean and free of any contamination prior to application of Surface Conditioner.

- Concrete should be cleaned with Concrete Cleaner – see Product Guide for application instructions.
- Any contaminated areas should be treated with appropriate cleaning agents and pass the 'water test' prior to application of the sealer.
- The concrete surface must be completely dry before applying Surface Conditioner

5. EQUIPMENT

- Bucket or paint tray.
- The conditioner can be applied with any of the following:
 - Soft bristle broom: recommended for textured surface and exposed aggregate concrete.
 - Brooms are available from Peter Fell Ltd, otherwise ensure broom head is solvent proof.
 - Sprayer: HPLV (High pressure, low volume) or airless sprayers that are solvent proof can be used. Some standard pump-up garden sprayers can be used, but solvent typically breaks down working components of the sprayer (i.e. seals and gaskets) so single use only.
 - Nozzle: 20 - 30° fan angle and 10 thousands orifice size with 2,000 psi pressure or equivalent. Adjust nozzle type to suit application.
 - Roller: recommended for smooth or ground concrete. Solvent proof, 5mm nap mohair roller or similar.
- Safety Equipment – see section ‘10. Safety and Handling’.

6. APPLICATION

- Apply Surface Conditioner in thin coats, avoid pooling.
- Leave to act on surface until touch dry.
- Once completely dry apply top coat of Glaze or Satin Sealer

Drying time:

- Surface Conditioner typically takes 4-6 hours to dry fully.
 - Drying time may be longer in cold climates, and varies depending on atmospheric conditions, the condition of the prepared surface, and the method of application.
- Vehicles can be used on the sealed surface 48 hours after sealing.

Clean-up:

- All equipment can be cleaned with Sealer Thinner, HOWEVER it is recommended that applicators are simply disposed of.
 - Sealer Thinner contains dangerous chemicals and must be handled with extreme care, that is why we advise disposing of any application equipment to avoid handling these chemicals.

7. Maintenance

- Concrete sealed with Surface Conditioner should be cleaned using with Concrete Cleaner.
 - Refer to the Product Guide or contact Peter Fell Ltd for product information.
- Surface Conditioner should be over-coated with Glaze or Satin Sealer, and this top coat is the surface that requires ongoing maintenance.

8. REMOVAL

Removal of Surface Conditioner is difficult and can result in damage or alteration of the concrete surface and as such is not recommended. If required the sealer should be removed mechanically by grinding/honing the floor. This process will alter the appearance of the floor by exposing the aggregate (stones) which should be considered prior to removal of the sealer.

9. STORAGE AND HANDLING

Pack Sizes:	1, 2, 5, 10, and 20 L units.
Handling:	Wear suitable protective clothing – see section 10. Personal Protective Equipment.
Storage:	Store in cool, dry, well ventilated place in original container. Store out of reach of children. Store away from direct sunlight, oxidizing agents (e.g. nitrates), acids, anionic, detergents, and foodstuffs. Keep away from naked flames and other heat sources. Take precautions against static discharge. 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 Conditioner can be stored for up to 12 months.

10. 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. Safety boots.
Respiratory:	A respirator is recommended when airborne concentrations approach the Workplace Exposure Standard (WES) – see MSD for more information. Use a respirator with an organic vapour cartridge and a dust/mist filter. If using respirator, 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.

11. FIRST AID

Swallowed:	DO NOT induce vomiting. Give water or milk to drink. Obtain medical attention immediately. For emergency information contact the <i>National Poisons Centre (0800 764 766)</i> .
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 excess 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.

Refer to the SDS for full Health and Safety information.

12. PHYSICAL PROPERTIES AND IDENTIFICATION

Appearance (in pack):	clear amber liquid
Appearance (when dry):	Transparent
Odour:	strong solvent odour
Solubility:	not soluble (in water)

UN Number:	1993
HSNO Approval:	HSR002662
Hazchem code:	3YE
DG Class:	3
Packing Group:	II

PRODUCT WARRANTY

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