

# TECHNICAL DATA SHEET

06/01/2018

[www.protectitsp.co.uk](http://www.protectitsp.co.uk)



**PROTECTiT**  
SPECIAL PROTECTION

## CONCRETE REMOVER

Biodegradable concrete remover.  
Ideal for regular cleaning of ready-mix concrete lorries and pumps.

### PRODUCT DESCRIPTION

- Concrete Remover is for removing cement contamination from a wide range of substrates. It is formulated to clean concrete mixers, pumps and GRC moulds, cement silos, associated plant and tools.
- Ideal for regular cleaning of ready-mix concrete lorries and pumps, keeping them clean, without damaging paintwork.
- Contains a naturally occurring, organic acid that breaks down the cement matrix surrounding the sand and aggregates in mortars, render, bricks and concrete
- Breaking down this binder makes for the easy cleaning of mortar, render and concrete deposits from affected surfaces.
- Made of an organic molecule, derived from sustainable farmed produce. It has no components subject to Workplace Exposure Limits (WEL).
- Concrete Remover has major benefits over other concrete and cement cleaners because it is significantly safer to use and does not attack the underlying surface.
- 90% biodegradable, final biodegradability is in line with 'easily degradable' under OECD 301 and European Regulation No.648/2004.

### APPLICATION

*Always test apply on a small hidden portion of the substrate before applying*

- Shake the closed container for 30 seconds before opening for use. Pre-wet the area to be treated with water.
- Use Concrete Remover directly from its container, do not dilute or mix with other products.
- Spray evenly over the contaminated area, using a low pressure sprayer.
- A heavy application should be made when cleaning off cement and concrete residuals that are old and thick.
- Keep the surface soaked for 30-40 minutes. Do not allow the treated surface to dry out during the treatment stage.
- After treatment, scrub treated area with a hard-bristle brush if necessary. Rinsing off thoroughly using a low pressure water jet or spray.
- Approved Applicator product training in 'technology and application' is provided by ProtectiT SP Ltd.



### KEY FEATURES

- Ideal for regular cleaning of ready-mix concrete lorries, pumps, GRC moulds, cement silos, associated plant and tools, keeping them clean, without damaging paintwork.
- Easy to apply
- Highly efficient
- 90% biodegradable
- Non-flammable and non-volatile

### TECHNICAL DATA

- **Physical state 20 °C:** Liquid
- **Colour:** Pale Yellow
- **Smell:** Slight/mild
- **pH:** 2-3
- **Density:** 1.02 g/cm<sup>3</sup>
- **Solubility:** Totally soluble
- **Flash point [° C]:** Not Applicable
- **Biodegradability:** Readily Biodegradable OECD-TG3-1
- **Coverage:** 5-8 SqM/Ltr
- **Packaging:** 5, 20 and 1000 Ltr Units



## TECHNICAL DATA SHEET

06/01/2018

[www.protectitsp.co.uk](http://www.protectitsp.co.uk)

### ADVANTAGES

- Concrete Remover is a highly efficient cement and concrete remover, for the removal of cement and concrete without damaging equipment and surfaces, allowing, the easy removal of cement off metal, glass, rubber and paint substrates.
- “Compliant” compared to other cement cleaners, promoting safer working practices. Non-flammable and non-volatile. 90% biodegradable. Does not harm plant and tools contaminated with cement based residuals.

### RECOMMENDATIONS

- Avoid freezing conditions for application i.e. minimum of 5°C and rising. Avoid use in rain.

### PERFORMANCE

Cleaning rates depend on the temperature, thickness and age of the cement or concrete deposits (cement paste gets stronger with age). Effective within 40 mins of application. It is possible to remove all cement based deposits by using an appropriate quantity without damaging the substrate.

#### EFFECT ON PLASTIC SURFACES:

- The result below is the average of 3 tests at 23°C, maintained for 48 hrs in an undisturbed solution.
- The product has no appreciable effect on the plastic type tested.

Weight Loss: % of original weight	
Plastic type	Concrete Remover
Polypropylene	0.012%

#### EFFECT ON PAINTED SURFACES:

The effect of Concrete Remover on paint has been assessed on a visual basis, using coated metal plates. The results displayed are averages of 3 tests at 23°C, maintained for 48 hrs in an undisturbed solution of Concrete Remover. Use of the product had no discernible, visual effect on the coatings tested.

Paint/Coating Type	Visual Change
Polyurethane coating	None
Vehicle paint (Cellulose)	None
2-Pack Epoxy	None

#### EFFECT ON METALLIC SURFACES:

Results below are the average of 3 tests at 23°C, maintained for 48 hrs in undisturbed solutions of known concentration. In all cases, Concrete Remover out-performs Hydrochloric Acid and Phosphoric Acid, which are commonly used in removing cement based contamination.

Metal type	Weight Loss: % of original weight		
	Eco (10%)	HCl (10% Acid)	H <sub>3</sub> PO <sub>4</sub> (10% Acid)
1018 Mild Steel	0.165%	2.053%	0.665%
304 Standard 18/8 Stainless Steel	0.007%	0.009%	0.012%
316 Austentic Stainless Steel	0.002%	0.512%	0.003%
1100 Aluminum Alloy	.008%	0.932%	1.426%

### STORAGE/CLEANING

- Keep in a dry place (between 5°C and 30°C).
- Storage: 24 months following the production date when kept in the original unopened container.
- Immediately after you have finished clean all tools and equipment with water.

### HEALTH AND SAFETY

- **Respiratory Protection:** Under normal conditions of use, where adequate ventilation is available, no special respiratory protection equipment is needed.
- **Hand Protection:** Wear PVC gloves.
- **Skin Protection:** Wear protective clothing over exposed areas of skin.
- **Eye Protection:** Wear safety goggles.
- **If Swallowed:** Do not induce vomiting. Contact a doctor or a specialist.

**KEEP OUT OF THE REACH OF CHILDREN**

**Important:** The content of this documentation is based on our experience of the product. We expressly decline any liability in the event of failure by the user to comply with the recommendations and conditions of said products, notably but not exclusively in the event of incorrect application by an unqualified person(s) or use of products not compatible with this product(s) or unsuitable weather conditions. For Further information refer to the safety data sheet. Formal clarification on all matters relating to application and suitability for use of the product(s) should be sought from us prior ordering

