



## TECHNICAL DATA SHEET

# KEIM HEAVY DUTY CLEANER CONCENTRATE

## FOR MASONRY AND CONCRETE

### PRODUCT DESCRIPTION

Heavy Duty Cleaner Concentrate is an acid-based, biodegradable and concentrated, gel based cleaner intended for the removal of contaminants and severe black carbon staining, dirt, and grime on concrete, natural stone, unpolished granite, brick and stucco. When using on limestone, marble or any calcareous stone limit dwell times to 10-15 minutes. Also removes weathered form release agents and curing compounds on concrete that is at least 6 months old. The product is designed for exterior use on buildings, monuments and concrete structures.

### PRODUCT PROPERTIES

- Biodegradable – No VOC's
- Short dwell time – effective cleaning
- Gel clings to vertical surfaces for maximum effectiveness
- Brush, roll or spray application
- Very easy to use
- Economic to use – concentrated formula

### FIELD OF APPLICATION

Heavy Duty Cleaner is ideal for the removal of release agent residues and sinter layers on new or repaired concrete surfaces. It may also be used as a cleaning agent for existing concrete, stucco, masonry, stone, etc. contaminated with oily/greasy substances, pollution, soot, black carbon and other common atmospheric pollutants and stains.

### Technical data

- pH value = 4.3 (acidic)
- Density = 1.14 g/m<sup>3</sup>

### Environmental Compliance

EPA	YES
CARB	YES
SCAQMD	YES

### PREPARATION

Cover areas where cleaning is not desired, including adjoining surfaces where over spray may travel. Plastic (polyethylene) sheets make a very effective barrier. The Heavy Duty Cleaner may harm metal and aluminum and some glass surfaces, so protecting these areas is required. Plants and landscaping should also be covered before and during the application.

### MIXING:

Always wear protective eyewear when mixing Heavy Duty Cleaner. Thoroughly mix the concentrated cleaner with a drill and paddle until it becomes homogeneous. DO NOT SHAKE. Measure desired amount into larger container and then carefully mix-in 5 parts clean water and mix until homogeneous. During application it may become necessary to re-mix diluted cleaner. Fo

### MOCK-UP & TESTING

Always prepare a test area prior to full application. This will indicate the time required for project completion, suitability of cleaner for specific substrate and how well it cleans. It also helps to determine the coverage of cleaner, based on surface characteristics. It is ideal to test cleaner using exact application methods and under project conditions.



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### APPLICATION

First, saturate the substrate with water and allow pools and puddles of water to dissipate. Apply a thick, even layer of Heavy Duty Cleaner to the damp substrate, beginning at the bottom and working upward. Apply a wet film of 5 mils. You will note "fizzing" on the surface indicating the cleaner is working. If gel begins to dry, another coat of the cleaner may be applied directly to the existing one to re-wet. If needed a stiff brush can be used to clean off tough stains. **DO NOT ALLOW PRODUCT TO COMPLETELY DRY ON SUBSTRATE.** If product begins to dry, mist the substrate with water in a way that adds moisture but does not wash the cleaner off.

### EQUIPMENT & TOOLS

This product can be applied by brush, roll or sprayer. Natural bristle brushes work well on most surfaces while ¾ nap, or larger, rollers can also be used. An airless sprayer may also be used with a .19 tip, removing both filters from pump and spray gun. Hudson style pump-up sprayers are acceptable for small areas. Wash all tools immediately after use with plenty of soap and water. Lubricate spray equipment per manufacturer's instructions after cleaning.

### DWELL TIME

The time required for the cleaner to adequately clean a substrate is approximately 10-45 minutes. Cleaner will initially "fizz" but is still cleaning even after fizzing subsides. Allow maximum dwell time, without letting cleaner dry completely, for most effective cleaning. **CAUTION: LIMIT DWELL TIME TO 10 MINUTES ON LIMESTONE, MARBLE AND CALCAREOUS STONE.** Repeat application if needed.

### COVERAGE:

The cleaner is engineered for thick film build up on vertical and overhead surfaces. Minimum wet film thickness should be 5 mils. Always test the substrate to ensure accurate coverage rates. Typical coverage rates on a rough porous surface are between 80 and 120 sq. ft. per gallon. Coverage rates on a smooth nonporous surface are typically between 350 and 400 sq. ft. per gallon of diluted cleaner.

### REMOVAL & CLEANUP

After dwell time and fizzing has stopped, rinse the surface with copious amounts water, ideally using a pressure washer. Work from the bottom up. Rinse the substrate well until rinse water runs clear and no residue is left on the surface.

### LIMITATIONS

Surface temperatures should be 40° to 95°F (5° to 32°C). Dwell time increases at lower temperatures.

### PACKAGING

5 Gallon

### STORAGE

PROTECT FROM FREEZING AND EXPOSURE TO EXCESSIVE HEAT AND SUN. Sealed containers can be stored up to 12 months in cool and dry storage facility.

### DISPOSAL

Dispose of completely emptied containers in accordance with local, state and federal waste regulations.

### HAZARDOUS SUBSTANCE CLASS

C: Corrosive, contains hydrochloric acid

R 34: Causes burns.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 45: In case of accident or if you feel ill, seek immediate medical attention. (show this label if possible).

### TRANSPORT HAZARD CLASS

UN 1776

### DISPOSAL

Any residues must be emptied out of containers before recycling.



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**SAFETY INSTRUCTIONS**

Proper safety procedures should be followed at all times while handling this product. Refer to the Material Safety Data Sheet for important health/safety information before use. Heavy Duty Cleaner is an acidic gel. It is essential to wear protective clothing and glasses while using this product.

**WARNING:** Corrosive; contains hydrochloric acid and can cause burns. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel ill, seek medical advice immediately (show this label, or safety data sheet if possible).

**CAUTION:** KEEP OUT OF REACH OF CHILDREN.

DO NOT TAKE INTERNALLY.

SEE THE SAFETY DATA SHEET.



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