

Extra Muscle™ Prepaint Cleaner



- Extra Heavy Duty
- Clean Tough Dirt - Fast
- Improves Coating Adhesion
- Biodegradable
- Water-Based

For Cleaning:

- Heavy Equipment, Motors, Machinery
- Metal Parts & Subassemblies
- Factories and Garages

Removes:

- Mill Oil, Forming Oil
- Oxidized Paint, Soot, Smoke Residue
- Oil, Road Film, Stack Stains



GREAT LAKES
LABORATORIES

1. PRODUCT DESCRIPTION

Extra Muscle Prepaint Cleaner is an extra-heavy duty, highly concentrated, water-reducible, alkaline detergent blend preferred by painting and cleaning professionals for really tough cleaning jobs. It is recommended for heavy duty cleaning before applying a water-borne or solvent-borne coating or sealant.

2. ADVANTAGES

Extra Muscle Prepaint Cleaner delivers the increased solvency and high soil loading capacity required to remove heavy, sticky masses of greasy grime, soot, smoke/exhaust residue and paint chalk.

Under severe conditions, Extra Muscle Prepaint Cleaner has proven its ability to provide outstanding cleaning performance and superior surface bonding characteristics for new coatings.

Extra Muscle Prepaint Cleaner has a very slight, mild odor. When diluted, it is virtually odorless and non-objectionable to personnel in the area of use. It cleans rapidly through a broad range of temperature conditions and requires no unreasonable precautions by workers.

3. USES

CLEANING - Extra Muscle Prepaint Cleaner is recommended for heavy duty cleaning prior to the application of water-borne or solvent-borne coatings and sealants

SOLVENT REPLACEMENT - Extra Muscle Prepaint Cleaner is a very effective water-based replacement for chlorinated and petroleum solvents in most cleaning and degreasing applications.

REMOVING WATER-BASED COATINGS - Extra Muscle Prepaint Cleaner will soften and remove many water-based coatings and opaque stains. To test, spray the concentrate onto a small area and allow 10 minutes contact time. Scrape or brush the surface to remove the old coating. Rinse with a high pressure spray.

4. APPLICATION

Extra Muscle Prepaint Cleaner can be applied with a pressure washer, conventional or airless sprayer, hand-pump sprayer, hose-end sprayer or manually with a brush, cloth, sponge or fiber pad.

FOR BEST RESULTS

- 1) Select proper dilution (see Dilution Guide).
- 2) Mix the concentrate with water. Hot water will speed cleaning. Each 18° F increase in solution temperature doubles cleaning effectiveness.
- 3) Apply the mixed solution with a low pressure spray.
- 4) Allow 5-10 minute contact time.
- 5) Water rinse with high pressure spray.

IMPORTANT:

To prevent streaking on vertical surfaces, apply solution from the bottom working upward for the initial wetting of the surface.

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NO RINSE PREPAINT CLEANER
Product No. 13158

Extra Muscle Prepaint Cleaner

5. DILUTION

Extra Muscle Prepaint Cleaner is highly concentrated and intended to be diluted before use. Dilution rates will vary with surface conditions and application method.

The dilution required for a specific job should be determined by cleaning a small test area. Mix test solutions based on the following guide and compare the effectiveness of different concentrations.

For Conventional, Airless, Hand-Pump Sprayer or Manual Use:		
Soil Condition	For 1 Gal. of Solution Add:	For 5 Gal. of Solution Add:
Light Duty	1 oz.	5 oz.
Medium Duty	2 1/2 oz.	15 oz.
Heavy Duty	5 oz.	25 oz.

HOSE-END SPRAYER:

Follow manufacturer's dilution directions.

Severe soil conditions may require stronger dilutions, repeated cleaning and/or agitation with a brush, cloth, sponge or fiber pad.

FOR PRESSURE WASHERS

The force of high pressure water will remove some soils, however, certain contaminants are bonded to surfaces by a bond that even water at high pressure will not break.

Extra Muscle Prepaint Cleaner contains a unique blend of cleaning agents which break this bond allowing the soil to be washed away. The use of this product in a pressure washer will provide faster and better results than with water alone.

Pre-mix the solution according to the following guide and place the injector tube into the mixed solution and begin application.

For Pressure Washer With 10:1 Detergent Injector:		
Soil Condition	For 1 Gal. of Pre-Mix Add:	For 5 Gal. of Pre-Mix Add:
Light Duty	10 oz.	1/2 Gal.
Medium Duty	24 oz.	1 Gal.
Heavy Duty	48 oz.	2 Gal.

For extreme soil conditions, place the injector tube directly into the container.

6. PROPERTIES

Specific Gravity	1.02
pH As Supplied	13.0
pH @ 13 oz./Gal.	11.0
pH @ 10 oz./Gal.	10.5
pH @ 5 oz./Gal.	9.5
pH @ 1 oz./Gal.	7.5
Biodegradable	Yes
Stability	Stable
Diluent	Water
Solubility in Water	Complete
Storage Ability	Indefinite
Appearance	Green Liquid
Odor	Slight, mild
Boiling Point	Over 212°F
Freezing Point	Below 32°F
Freeze/Thaw Stability	3 Cycles
CERCLAReportable Quantity	N/A
RCRAHazardous Waste No.	N/A

7. COVERAGE CALCULATOR

Calculate the total Surface Area Square Feet to be cleaned by multiplying the length by height or width in feet.

$$\text{Length} \times \text{Height} = \text{Total Sq. Ft.}$$

$$\text{_____} \times \text{_____} = \text{_____}$$

To determine the approximate gallons of **No Rinse Prepaint Cleaner** concentrate required:

- Select Light, Medium or Heavy Duty from the chart.
- Find the Square Feet of Coverage closest to the Total Surface Area Square Feet to be cleaned.
- Use the numbers in the "Gallons of Concentrate" column for an estimate of the gallons needed to clean a flat, smooth surface using a low pressure spray applicator.
- For rough, porous, or corrugated surfaces: Multiply Gallons x 1.2
- For high pressure spray applications: Multiply Gallons x 1.3

Gallons of Concentrate	Square feet of Cleaning Coverage†		
	Light Duty 2 oz./Gal.	Medium Duty 3 oz./Gal.	Heavy Duty 5 oz./Gal.
1	25,800	10,400	5,200
2	51,600	20,800	10,400
3	77,400	31,200	15,600
4	103,200	41,600	20,800
5	129,000	52,000	26,000
6	154,800	62,400	31,200
7	180,600	72,800	36,400
8	206,400	83,200	41,600
9	232,000	93,600	46,800
10	258,000	104,000	52,000
20	516,000	208,000	104,000
50	1,290,000	520,000	260,000
100	2,580,000	1,040,000	520,000
200	5,169,000	2,080,000	1,040,000
500	12,900,000	5,200,000	2,600,000

† Based on cleaning 200 sq. ft./gallon of solution.

8. FIELD EXPERIENCE

Machine Tool Manufacturer

- Prepaint cleaning of used machinery
- Replace trichloroethane

Spraying and wiping surfaces to remove grease and oil residue before applying a urethane coating.

Diesel Truck Garage

- Prepaint cleaning of walls/decking
- Heavy coating of diesel exhaust

Applied solution with a tank-type sprayer providing a short contact time and followed with a high pressure rinse using clear water.

Paper Mill

- Prepaint cleaning of paper machine
 - Removing grease, oil and paper dust
- Applied solution with a tank-type sprayer. Spray rinsed with clear water using a pressure sprayer.

Wood Deck Cleaning

- Softening and removing solid latex stains
- Removing ground-in dirt

Applied dilute solution with a tank-type sprayer. After a short contact time, rinsed with high-pressure sprayer.

Textile Mill

- Prepaint cleaning oil-stained decking
- Sprayed a dilute solution onto surface with an airless unit allowing a short contact time. Spray rinsed with clear water.

9. SAFETY AND HEALTH DATA

Extra Muscle Prepaint Cleaner is biodegradable, non-flammable, non-carcinogenic, and contains no butyl, silicone, petroleum or chlorinated solvents.

10. RESEARCH

Extra Muscle Prepaint Cleaner has been accepted with an A-1 category designation as a general cleaning agent on all surfaces or for use with steam or mechanical cleaning devices in all departments of USDA inspected facilities.

11. AVAILABILITY

Extra Muscle Prepaint Cleaner is available through dealers and distributors throughout the United States and is manufactured in Livonia, Michigan. Call or write Great Lakes Laboratories, Inc. for a list of dealers and distributors.

Extra Muscle Prepaint Cleaner is available in 1 gallon plastic bottles (4 per case), 5 gallon plastic pails with reclosable spouts for pouring, and 55 gallon plastic drums.

12. TECHNICAL SERVICES

Technical advice furnished by Great Lakes Laboratories, Inc. concerning any use or application of **Extra Muscle Prepaint Cleaner** is reliable as current technology allows and the company makes no warranty, express or implied, of any use or application for which such advice is furnished. Technical assistance and information is available upon request by writing or calling Great Lakes Laboratories Inc. toll-free at (800) 888-1105.