

# **ORANGE TOUGH<sup>®</sup> 40**

## **WATER-DILUTABLE, WATER-RINSABLE MULTI PURPOSE DEGREASER**

### **PRODUCT DESCRIPTION:**

Orange Tough 40 is a natural solvent-based, water-dilutable, water-rinsable degreaser formulated for the fast removal of difficult industrial type soil and grease. The product is a clear, dark orange color with a natural orange fragrance for instant deodorization.

Water-dilutable and water-rinsable, Orange Tough 40 is formulated and marketed for those who, due to government regulations, concern for worker safety, or a preference for naturally derived solvents, do not want to use petroleum distillates or chlorinated solvents such as Trichlorethylene, Perchlorethylene, methylene chloride, carbon tetrachloride and toluene.

Not all products claiming to be "natural citrus cleaners" are 100% d-limonene. They usually contain less effective and less expensive combinations of solvents such as IPA (isopropyl alcohol), glycol ether or other natural turpenes derived from lime, grapefruit, lemons, pine trees or synthetically-made equivalents. When a product claims to contain d-limonene and is 40% active, it is not necessarily a 40% d-limonene product. In contrast, Orange Tough 40 actually contains 40% d-limonene...is 65-70% active!

### **NATURAL DEGREASING POWER:**

Orange Tough 40 is formulated with 40% d-limonene, a natural solvent derived from citrus peel (usually oranges). This natural solvent degreasing characteristic is enhanced with compatible builders, surfactants and wetting agents to provide extra degreasing strength.

### **MULTI PURPOSE:**

Orange Tough 40 has a wide variety of uses...from kitchen to industrial shop. Dilute Orange Tough 40 with water from 1:1 to 1:10 to remove oily, greasy soils from vinyl tile, quarry tile, ceramic, marble, concrete, aluminum, metal and other hard surfaces. Designed to quickly penetrate and clean away heavy soils, grease and carbon exhaust from aircraft, busses, trucks and other motorized vehicles, Orange Tough 40 also removes rust proofing overspray and cosmoline from cars; overcoating and oil spills from concrete.

**SAFER THAN TOXIC SOLVENTS OR HARSH CAUSTICS:**

Orange Tough 40's d-limonene base replaces harsh caustics and toxic solvents such as petroleum distillates, chlorinated solvents, strong acids and butyl. Users like Orange Tough 40's organic natural degreasing ability and pleasant deodorizing orange fragrance. No highly toxic vapors to breathe. Orange Tough 40 is non-flammable when diluted in water. Non-corrosive...safe on most paints, aluminum and other metals...can be used on nearly every surface.

**ENVIRONMENTALLY SOUND:**

Formulated with environmental needs in mind, Orange Tough 40 is biodegradable and phosphate free.

**DIRECTIONS FOR USE:**

**Some individuals may be sensitive to ingredients in this product. Before use, read product label and MSD sheet.**

**General Cleaning & Degreasing:** Dilute Orange Tough 40, 1:10 (12 oz./gal. or 90 ml/l of water). Apply with automatic or rotary scrubber, mop, brush, sponge or sprayer. **Use solvent-resistant trigger sprayer or stainless steel sprayer.** When used on floors, pick up or rinse thoroughly to remove residue and prevent slipperiness. Flush out scrubber with plain water after use.

**Hot Dip Tank/Pressure Washer:** Use up to 60°C/140°F at 1:10 (12 oz./gal. or 90 ml/l of water) to 1:20 (6 oz./gal. to 45 ml/l of water).

Areas for Use	Dilution Ratio	Oz./Gal. water
General degreasing tasks (vending machines, garbage and trash containers, machinery, tools, etc.)	1:10	12 oz.
Floors* (vinyl tile, quarry tile, ceramic, marble)	1:20	6 oz.
Concrete floors, driveways and walls	1:10	12 oz.
Aircraft cleaning	1:20	6 oz.
Carbon exhaust/Cosmoline/Smoke trails	1:10	12 oz.
Car underbody and rust proofing	1:10	12 oz.
Oil well drills and other equipment	1:10	12 oz.
Hot and cold parts dip	1:10 to 1:20	6 to 12 oz.
Industrial equipment	1:20	6 oz.
Crop dusters, sprayers	1:10	12 oz.
Tractors and other farm implements	1:15	9 oz.

\* Use of Orange Tough 40 will dull floor seals, finishes and some types of protective coatings. Do not use to degrease concrete floors prior to application of New Generation 100 Epoxy Resurfacing System.

**SPECIFICATION DATA:**

Total Active Ingredients - 65-70%  
pH (Concentrate) - 9.0  
Specific Gravity - 0.960 @ 24°C/75°F  
Density - 7.99 lbs./gal. @ 24°C/75°F  
Flash Point (Cleveland Open Cup) - 145°F  
(Tag Closed Cup) - 124°F

Solvents - d-limonene

Viscosity - 25 cps

Stability:

- a. Shelf @ 24°C/75°F - One year min.
- b. Accelerated @ 49°C/120°F - 60 days min.
- c. Freeze/Thaw - Withstands a min. of 1 freeze/thaw cycle.

Miscibility - Forms emulsion in all proportions of hot and cold water; emulsifies water insoluble solvents and oils.

Rinsability -- Rinses completely with hot or cold water and leaves no film.

Biodegradable

Phosphate free

**PACKAGING:**

Orange Tough 40 is packaged in attractively lithographed, lined steel 55-gallon drums and 5-gallon pails; and gallons, four per case. Label copy is provided in English and Spanish. Secondary labels are also available.

**Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of this or any Spartan product. If questions remain, consult your employer or a physician. Material Safety Data Sheets for all Spartan products are available from your authorized Spartan distributor or by visiting [www.spartanchemical.com](http://www.spartanchemical.com).**

**GUARANTEE:**

Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture.