



GREENSOLV inc.

## TECHNICAL BULLETIN

### G-STRIP 250

#### INDUSTRIAL ALKALINE PAINT STRIPPER – NO VOC STEEL & FERROUS METALS

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##### 1) PRODUCT DESCRIPTION

**G-STRIP 250** is a low cost, extremely effective, and biodegradable water-borne liquid paint stripper for powder coatings, E-Coat and all industrial liquid coatings. It is compatible with **ferrous metals only**: cast iron, steel and stainless steel.

**G-STRIP 250** is designed for use in a heated soaking tank. However, it can be used at room temperature with a longer soaking time. The recommended operating temperature is 40 to 80 °C (104 to 176°F).

Because of Greensolv's personalized technical support, **G-STRIP 250** will maintain its maximum efficiency during the operation of the stripping solution (from 1 to 3 years depending on its use). The stripping time is usually between 15 and 60 minutes for most catalyzed and powder coatings (including E-Coat) when the stripping solution is heated at a temperature between 60 and 80°C (140 – 176°F). This product will easily fulfill your stripping needs at low operating costs.

Typical applications:

- Industrial stripping tank for ferrous metal parts
- Tank wash

Typical coatings:

- Powder coatings (polyester & polyurethane);
- E/Coat;
- Catalyzed paints (epoxies, polyurethanes, polyesters, etc.);
- Non-catalyzed paints (acrylic, enamels, urethanes, alkyds);

##### 2) BENEFITS

**G-STRIP 250** is biodegradable and safe for the users. It will allow you to strip the toughest coating systems within a very short period of time.

Its main benefits are:

- Extremely effective;
- Low operating cost;
- Biodegradable, No HAP (*Hazardous Air Pollutant, U.S. EPA*);
- Does not contain any VOC (Volatile Organic Compound)
- Low evaporation rate;

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G-STRIP 250 – Industrial Alkaline Paint Stripper  
Greensolv inc. – (514) 457-8000



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- The product can be cleaned and reused;

### 3) PHYSICAL PROPERTIES

Physical appearance.....	transparent amber liquid
Odor.....	Ether
Biodegradability .....	Good
Flash point (close cup).....	>93.3°C (200°F)
VOC Content .....	0 g/L
Specific Gravity (Water = 1) .....	1.10 – 1.20
pH (1 % in water) .....	12.5 – 13.5
Solubility in water.....	Good

### 4) DIRECTIONS FOR USE

*Note: G-STRIP 250 will often separate in 2 phases (heterogeneous) when heated, it is normal and does not affect operating efficiency.*

#### **Before immersion:**

- Clean any excessive grime from the surface to be stripped.

#### **Immersion:**

- Completely immerse the parts to be stripped in a solution of **G-STRIP 250** at temperatures varying from 40 to 80°C (68 to 176°F); the higher the temperature, the shorter the stripping time;
- Mild to moderate agitation of the solution during the stripping process will allow a faster reaction;
- Wait until the parts are stripped completely before taking them out of the solution;

#### **Rinsing :**

- Clean and rinse the parts with water if needed (preferably with warm water, add detergent if required);

#### **Applying a new coating :**

- Make sure the parts are dry and free of contaminants before applying a new coating.

#### Oil Blanket:

- Use **G-ISOTHERM** – a light synthetic oil – to cover the stripping solution. It substantially reduces evaporation losses and contributes to lower heating costs. A good oil blanket should have a minimum thickness of 1 to 3 inches (2.5 to 7.5 cm) in order to be effective.

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#### Efficiency:

- Three (3) variables will greatly influence stripping efficiency:
  - 1- CONCENTRATION of the 2 additives (**NaOH/ KOH & ADDITIVES G-STRIP 250**).  
Add both additives as needed. Maintain a pH range of 12.5 to 13.5, add **NaOH or KOH** to increase pH.
  - 2- TEMPERATURE. increasing the temperature by 10°C (18°F) will also reduce the stripping time by 20 to 50%. Do not exceed 80 - 85°C (176 - 185°F).
  - 3- AGITATION. Good agitation can reduce the stripping time by 30 to 50%. The use of compressed air can greatly accelerate the evaporation of the product. We recommend using a propeller.

#### Keeping a clean stripping solution:

- **G-STRIP 250** will dissolve the paint into small particles that will settle in the bottom of the tank. On a regular basis (every 4 to 12 months), let the paint stripper settle by turning off agitation and heat for a period of 48 hours. Once the paint particles are settled, pump the paint stripper from the top of the tank until you reach the paint sludge. Remove the sludge at the bottom of the tank with a shovel. Refill the tank with the stripping solution and start it up.

#### Performance and additives:

- **G-STRIP 250** operating life will depend on its use and the number of parts stripped. With a regular maintenance and clean-up, the product will be effective for a very long period of time (minimum 18 to 24 months).
- Drag-out and evaporation are the 2 most significant factors contributing to product loss. A dripping table can be installed by the stripping tank to reduce losses from drag-out. To reduce evaporation, use an oil blanket (G-ISOTHERM).

#### **Compatible materials (when building a stripping tank):**

- Soaking tank: steel and stainless steel;
- Pump: Steel, Stainless steel and Teflon;
- Piping: Steel and Stainless steel;

#### **Precautions:**

- Avoid contact with rubber and plastic surfaces as they may degrade. In case of contact, dry as soon as possible;

## **5) PERSONAL PROTECTION**

### **Engineering Controls :**

Provide good exhaust ventilation to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are in proximity of workstation location.

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### **Safety equipment:**

- Wear appropriate respirator device with VOC (Volatile Organic Compound) cartridges when ventilation is inadequate;
- Splash goggles, safety glasses or face shield;
- Rubber apron and/or long sleeves;
- Chemical resistant gloves;
- Boots;

### **6) STORAGE**

Store **G-STRIP 250** at a controlled temperature between 0°C and 30°C. (32° F to 86° F). Store in a closed and dry container when not in use. The shelf life of the product has been determined to be three (3) years.

### **7) PACKAGING**

**ADDITIVES G-STRIP 250** is available in :

- Pails ( 18.9 L – 5 U.S. Gal. ).
- Drums ( 205 L – 55 U.S. Gal. ).

**Version :** 1  
**Last Update :** August 2013