

TECHNICAL BULLETIN

WHEELSTRIP 293WL

INDUSTRIAL LIQUID PAINT STRIPPER – NMP free (REACH) ALUMINUM & STEEL

1) PRODUCT DESCRIPTION

WHEELSTRIP 293WL is an extremely effective and biodegradable liquid paint stripper for industrial coatings. It was designed to strip the coatings on aluminum and steel, but it is also compatible with other metals such as copper. Because of the personalized technical support, **WHEELSTRIP 293WL** will maintain its maximum efficiency as long as you operate the stripping tank. This product can be treated and cleaned which will allow you to keep the solution for an extended period of time. The stripping time are usually between 15 and 60 minutes for most catalyzed liquid 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 aluminum and ferrous metals
- Ideal to strip alloy wheels (rims)

Typical coatings:

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

WHEELSTRIP 293WL is designed for use in a heated stripping tank. However, it can be used at room temperature with a longer dwell time. The recommended operating temperature is 40 to 80 °C (104 to 176°F).





2) BENEFITS

WHEELSTRIP 293WL is biodegradable and safe for workers. 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*);
- REACH compliant – NMP free
- Non-corrosive on aluminum, ferrous metals and copper;
- Low evaporation rate;
- The product can be cleaned and reused;

3) PHYSICAL PROPERTIES

Physical appearance.....	transparent yellow liquid
Odor.....	Ammonia
Biodegradability	Good
Flash point (close cup).....	>93.3°C (200°F)
Specific Gravity (Water = 1)	1.08
pH (1 % in water)	11.5 – 12.5
Solubility in water	Good

4) DIRECTIONS FOR USE

Before immersion:

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

Immersion:

- Completely immerse the parts to be stripped in a solution of undiluted **WHEELSTRIP 293WL** 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:

- When needed, 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 7.5cm) in order to be effective.

Efficiency:

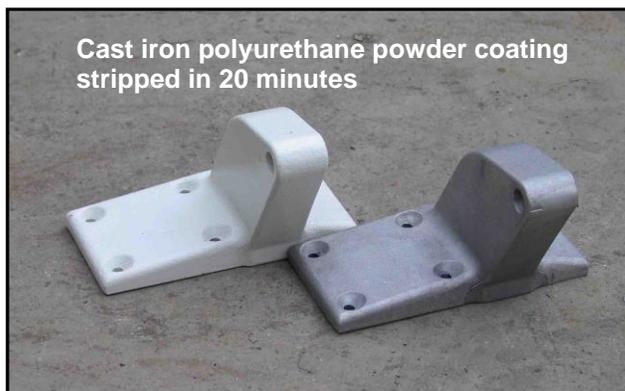
- Two variables will greatly influence stripping efficiency: agitation and temperature. Good agitation can reduce the stripping time by 30 to 50%. On the other hand, increasing the temperature by 10°C (18°F) will also reduce the stripping time by 20 to 50%.

Keeping a clean stripping solution:

- **WHEELSTRIP 293WL** will dissolve the paint into small particles that will settle in the bottom of the tank. On a regular basis (every 4 to 10 months), let the paint stripper settle by turning off agitation and heat for a period of 48 hours. Once 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:

- **WHEELSTRIP 293WL's** 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 is the most significant factor contributing to product loss. A dripping table can be installed by the stripping tank to reduce losses.



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.

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 **WHEELSTRIP 293WL** 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

WHEELSTRIP 293WL is available in:

- Pails (18.9 L – 5 U.S. Gal.)
- Drums (205 L – 55 U.S. Gal.)
- Tote (1000 L – 265 U.S. Gal.)

Version : 1
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