



GREENSOLV inc.

TECHNICAL BULLETIN

GREENSOLV 274Mil

GEL PAINT STRIPPER FOR AEROSPACE

Approved by the Royal Canadian Air Force

1) PRODUCT DESCRIPTION

GREENSOLV 274Mil is an highly effective catalyzed paint remover which works on a wider variety of coating systems such as epoxies & polyurethanes used in the aerospace industry. It is non corrosive and can be used on all metals. **GREENSOLV 274Mil** is a gel that contains wax to reduce evaporation, it will stay wet on the surface for more than 24 hours. It can be applied with a paint brush or an airless pump. It was developed to replace highly toxic and ozone depleting chemicals (such as dichloromethane).

Typical stripping applications:

- Stripping entire aircrafts;
- Stripping parts;
- Removing polysulfide joints;
- Removing Membrane / appliqué material (belly tape);

NSN #: 8010-20-001-8490 (4 x 3.78Litres / 4 x 1 Gal.)
 8010-20-001-8486 (18.9 Litres / 5Gal.)





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2) BENEFITS

GREENSOLV 274Mil is a highly effective paint remover based on a mixture of low evaporation rate solvents. This synergetic composition exhibits excellent stripping capabilities without using any harmful CFC.

Its main benefits are:

- Non-corrosive : Safe for all metals; **meets corrosion requirements of the TT-R-2918A** for hydrogen embrittlement, sandwich corrosion & immersion corrosion);
- Very low evaporation rate;
- Easily applied with an airless pump;
- Biodegradable;
- **Does not contain any HAP** (Hazardous Air Pollutant), **ODS** (Ozone Depleting Substances) nor any ingredient listed in the **CEPA** (Canadian Environmental Protection Act);
- **Low consumption** (60% less than methylene chloride based strippers and 40% less than benzyl alcohol based strippers);
- Coverage of approximately 2,2 to 2,9 m²/kg or 85 - 110 ²ft/USG.

3) PHYSICAL PROPERTIES

Physical appearance.....	Green gel (with wax)
Odor.....	.Ammonia
Biodegradable.....	Yes
Flash point (Closed/Open Cup).....	38° C/ 60°C (100.4° F/ 140°F)
Specific Gravity (Water=1)	0.90 - 1.00
PH (1 % in Water)	9.5 – 10.5
Viscosity.....	>40 000 cPs
COV	85% (830g/L)
Solubility in water	Partially soluble



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4) DIRECTIONS FOR USE

Before application:

- Mask all parts of the aircraft that is not metal;
- Clean any excessive grim from the surface to be stripped.
- Mix **GREENSOLV 274Mil** well.



Application :

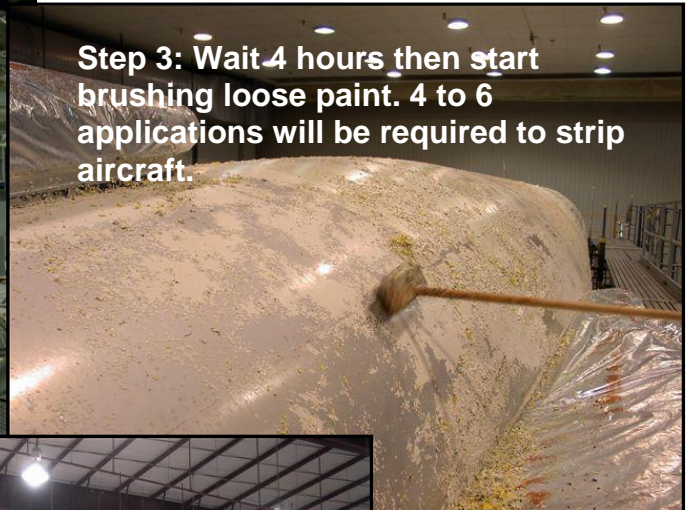
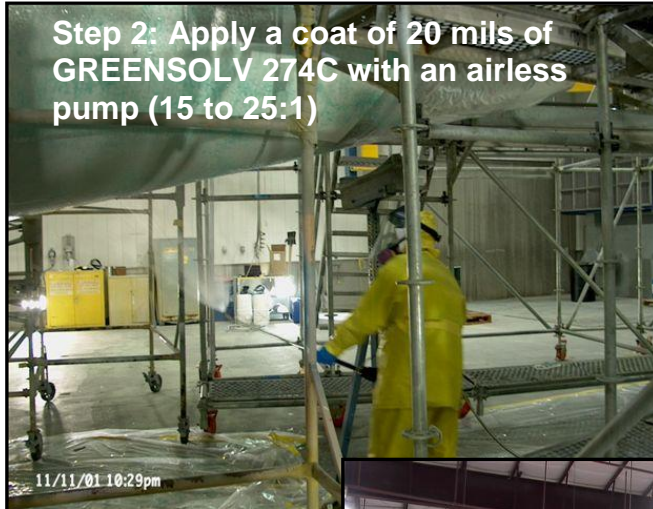
Estimated time required to strip the entire aircraft (12 to 18 hours).

- Apply with a brush or an airless pump, a layer approximately 15 to 20 mils (300 microns) thick of **GREENSOLV 274Mil** on the surface to be stripped. Coverage: 2,2 to 2,9 m²/kg or 85 - 110 ²ft/USG.
- Let it stand for two (2) to four (4) hours or until the paint has raised. Recommended temperature: between 25° C and 35° C (77° F and 95° F). The higher the temperature, the faster the reaction. **Optimum temperature: 30° C (86° F).**
- After 4 hours, brush the paint rapidly to remove loose paint; use a broom made of wood and plastic;
- Apply a second coat of **GREENSOLV 274Mil** and wait for 2 hours;
- Brush the paint once again and apply a third layer of **GREENSOLV 274Mil**, wait for 2 hours and start brushing. Reapply once more; **in total, 4 to 6 applications will be required to strip the entire aircraft;**



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- When the paint has bubbled all over, remove it with a brush or rinse with a pressure washer (1800 to 2500 psi).



Precautions :

- Avoid contact with composites, rubbers & plastics as they may degrade. Do a spot check before putting in contact with those substrates. In case of contact, dry as soon as possible.
- Avoid contact with strong oxidants, (ex: caustic, strong acid, peroxide, etc)
- Product is very slippery on the floor.

5) PERSONAL PROTECTION

Engineering Controls :

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.



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When Sprayed :

- Wear appropriate respirator when ventilation is inadequate. (Approved/ certified respirator with organic vapor cartridges)
- Face shield, safety glasses or splash goggles;
- Chemical resistant protective suit.
- Chemical resistant gloves.
- Boots.

When brushed:

- Wear appropriate respirator when ventilation is inadequate. (Approved/ certified respirator with organic vapor cartridges)
- Safety glasses or splash goggles;
- Synthetic apron or long sleeves;
- Chemical resistant gloves.

Try to avoid skin contact by wearing adequate equipment.

6) STORAGE

Store **GREENSOLV 274Mil** at a controlled temperature of 0°C to 30°C. (50° F to 104° F). Keep away from any source of sparks or flames. Store in a closed container when not in use. Keep container dry. The shelf life of the product has been determined to be 2 years.

7) PACKAGING

GREENSOLV 274Mil is available in:

- Gallons (2 x 1 U.S.Gal. /3,78L)
- Pails (18,9L. – 5 U.S. Gal.).

Version : 4
Last Update : November 2014

