



TECHNICAL BULLETIN

GREENSOLV 274A (Patent pending)

HIGH PERFORMANCE PAINT STRIPPER FOR AEROSPACE

1) PRODUCT DESCRIPTION

GREENSOLV 274A belongs to a new generation of biodegradable, non-toxic and powerful paint strippers, which are safe to use and do not affect the ozone layer. This product is an effective replacement for many types of chlorinated paint strippers.

GREENSOLV 274A has a high viscosity and has been designed for use on inclined surfaces.

GREENSOLV 274A is safe on Teflon, polyethylene and Tychem QC and is non-corrosive on all aerospace metals as shown in the following corrosion tests (SMI: 01FEB985):

- **Immersion Corrosion -As per U.S. Federal Specification TT-R-2918A**

ALLOY	WGT CHG (mg/cm ² /24hrs)	
	ALLOWABLE	FOUND
AMS 4041 alclad aluminum 2024-T3 (QQ-A-250/5)	0.04	<0.01
AMS 4049 alclad aluminum 7075-T6 (QQ-A-250/13)	0.04	<0.01
AMS 4037 bare aluminum 2024-T3 (QQ-A-250/4), Anodized per MIL-A-8625 Ty I or II	0.04	<0.01
MIL-S-7952 Grade 1020 steel; polished to 65 rms	0.04	<0.01
MIL-S-7952 Grade 1020 Steel cadmium plated per QQ-P-416 Type I, C13	0.20	0.02
AMS 4375 Mg; chrome pickled per MIL-M-3171 Ty I	0.20	<0.01
AMS 4911 Titanium MIL-T-9046	0.04	<0.01

***Sandwich Corrosion**

	2024-T3 Anodized	2024-T3 Alclad	7075-T6 Anodized	7075-T6 Alclad
GREENSOLV 274A	1	1	1	1
Control	1	1	1	1

***Hydrogen Embrittlement**

No failures occurred within 200 hours

Result

Conforms

***Ref. SMI: 01FEB985**

More particularly, **GREENSOLV 274A** is a paint remover comprised of several known solvents formulated to react in a synergetic way to give significantly improved paint removing capabilities for paints and catalyzed finishes.

GREENSOLV 274A is very effective for many types of paints, especially melamine acrylic based paints, alkyd, water, epoxy, acrylic urethane, varnish, latex and polyurethane.

2) BENEFITS

- Low odor product.
- Viscous liquid for maximum contact with vertical surfaces.
- Effective for many types of aerospace coating systems
- Non-corrosive
- Does not attack the ozone layer.
- No caustic, acid, phenol, chromate or chloride product.
- Biodegradable
- Easily applied with a brush, a roller or piston pump.
- Coverage of 1,5 to 2 m²/kg or 70 to 90 ²ft/USG.
- Strips mainly in 1 application.

3) PHYSICAL PROPERTIES

Physical appearance.....	green, opaque and viscous liquid
Flash point (Closed/Opened cup).....	50/60°C (122/140°F)
Density (Water=1).....	0.89 - 1.0
pH.....	7-10
Viscosity.....	100 000 cPs
Solubility in water.....	partially soluble

4) PROCEDURE

Before application :

- Thoroughly clean the surface to be stripped (grease, mud etc).

Application :

- Shake well before using.
- Apply with a brush, roller, or piston pump (ratio 25 : 1 minimum), a layer approximately 15 to 20 mils thick on the surface to be stripped. Coverage of 1.5 – 2.0 m²/kg or 70-90 ²ft/USG.
- Let work from 4 to 8 hours without touching, at a temperature between 20 and 35°C (70 and 95°F). **Optimum temperature : 28°C (86°F).**
- When the paint has bubbled all over, remove it with a scraper, brush, rag or vacuum.
- Apply a second layer of GREENSOLV if necessary. When there are many coats of paint on the substrate (more than 3), Greensolv will usually remove them all to bare metal, but it might require a second application in certain areas (especially when facing downwards).

Note : For faster stripping, a scraper can be used when the paint becomes soft (approx. 1 hour).

The average time required to remove catalyzed paint will vary from 3 to 6 hours depending on the type of coating system and substrate.

Rinsing :

Before welding or repainting.

- **On ferrous metals**, clean the surface with a solvent (ex: GREENSOLV 900) or a mix of water with a corrosion inhibitor (ex: GREENLUBE 310) at 1% immediately after removing GREENSOLV or as your usual procedures.
- **On non-ferrous metals**, clean the surface with a solvent (GREENSOLV 900) or water. Let dry.

Disposal requirements :

GREENSOLV is biodegradable and will not cause any harm to the environment. Moreover, dry paint is considered non toxic (lead, zinc and chromate free type) and could be disposed of like regular garbage in many areas. Alternatively paint and Greensolv in an aqueous solution is considered toxic because of the paint in solution.

So to minimize waste water and to avoid treating big volume of water, we recommend to remove Greensolv and the coating system without the use of water (squeegee, vacuum, etc.).

Once the paint and Greensolv have been collected, leave it to dry. Once **GREENSOLV** is fully dried (not regulated), dispose of it as a regular garbage (after having certifying the non toxicity of paint with local authorities or paint supplier).

If Greensolv is mixed with water and paint, normal regulations for paint in an aqueous solution should be applied. The solution is treated as a toxic waste and should be disposed of by local contractor or in an effluent treatment plant.

Precautions :

- Protect rubber, plastic, zinc and copper surfaces as they may degrade (ex: brake lines and electrical wires)
- Prior to strip wood have a little spot test for tarnishing
- Avoid contact with strong oxidants, (ex: caustic, strong acid, peroxide, etc)
- Product is very slippery on the floor.

5) PERSONAL PROTECTION

Greensolv sprayed, depending on the size of the surface to be sprayed, we recommend that the workers operating the pump wear :

- Chemical goggles or face shield for full protection
- Rubber gloves
- Long sleeves shirt or cover all made of Tychem QC for full protection
- Leather boots with shoe cover made of Tychem QC for full protection
- Appropriate respirator with VOC cartridges for full protection.

Greensolv brushed or rolled, we recommend that the workers wear :

- Safety glasses,
- Rubber gloves,
- Long sleeves.

If working in a confined space with a poor ventilation, use the full personal protection.

As a general recommendation for outside booth stripping, there is no need to cordon area for small applications, for large sprayed applications cordon perimeter to 10 feet from the application. Cordon can be removed once spray is finished.

6) STORAGE

In ideal conditions store at a controlled temperature between 10 and 40°C. In a standard manner keep away from any source of sparks or flames. Store in closed container when not in use. Keep container dry.

7) PACKAGING

GREENSOLV 274A is available in :

- pails (18 kg.),
- drums (180 kg.)
- semi-bulks containers (1100 kg.).

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