

TECHNICAL BULLETIN

NOVASTRIP S1 – NOVASTRIP ADDITIVE

Solvent Stripper For Polyester Powdercoat

1. INTRODUCTION

Novastrip is a liquid blend of caustic alkali and organic solvents. It contains no phenols, cresols or organic acids. It is much safer to use than similar products containing phenols. It is supplied in 2 parts: **Novastrip S1** and **Novastrip Additive**.

2. APPLICATION

Novastrip is designed primarily for stripping polyester powder coatings from aluminium and steel, although it can be used with other paint finishes on a variety of substrates.

Aluminium is very slightly etched by this process, if left in solution for an extended length of time after the paint has been removed.

3. OPERATION

Make up Add **Novastrip S1** and **Novastrip Additive** to the tank at a ratio of 5:1. The bath is then ready for use.

Temperature Ambient.

Time Up to 10 minutes. Most paints are stripped in less than 3 minutes.

Stripping baths must be tightly lidded to an air tight seal when not in use to prevent evaporation.

NEVER ADD WATER TO THE TANK. Fume extraction should be used when tanks are unlidded.

A WATER SEAL SHOULD NOT BE USED AS WATER WILL ADVERSELY AFFECT THE PERFORMANCE OF THE PRODUCT.

Parts should be rinsed in cold water after stripping. Powder coat should be fully removed from the work in the bath before attempting to rinse off residues.

4. BATH CONTROL

A bath of NovaStrip loses activity in use, in two ways. If the bath is used only intermittently, it may lose solvent through evaporation. This is why the tank must be very well sealed when not in use.

A bath used heavily will lose activity through reaction of the active ingredients with the polyester powdercoat and eventually become exhausted.

The chemical activity of the bath can be measured by a simple titration as follows:

- A. Take a 10 ml sample of the bath.
- B. Add 50 mls of water and a few drops of phenolphthalein indicator.
- C. Stirring very vigorously, titrate with 1N HC1 until the pink colour disappears. Take care to only observe the colour in the water (upper) layer as pink colour may persist in the solvent (lower) layer causing the titration to overshoot.

The titration for a new bath will be 5 ml reducing as it is used. Keep the titration above 4 ml to maintain bath performance. An addition of 3% Additive by volume increases the titration by 1 ml.

To correct bath exhaustion:

Addition of 1 part of **NovaStrip Additive** to 5 parts of exhausted bath will restore full activity.

Add **NovaStrip S1** to maintain the level in the tank, add **NovaStrip Additive** to maintain bath activity.

5. EQUIPMENT

Mild steel or stainless steel tanks can be used. Evaporation must be minimised by provision of a close fitting lid and if possible floating plastic balls or similar.

6. STORAGE

NovaStrip S1 and **NovaStrip Additive** should be stored in original containers in a cool dry place, in accordance with dangerous goods storage regulations.

7. EFFLUENT

Post stripping rinse water may normally be discharged to the sewers. Check local regulations. Consult Waste Disposal Contractors for disposal of spent stripper.

8. HANDLING AND OPERATING PRECAUTIONS

Product and Stripping Bath

Novastrip Additive is corrosive and toxic by inhalation. **Novastrip S1** is toxic by contact and inhalation. Wear full protective clothing. Wear safety glasses and gloves.

Should accidental skin contact occur, flush affected areas well with water. Medical attention should be sought if eyes are affected.

Keep away from sources of ignition. The bath should be placed well away from paint ovens and gas fumes. See safety data sheets for more detailed information.

DISCLAIMER

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