



Roof Coating Guide

Recoating Previously Painted Roof Surfaces

There are several environmental factors that can contribute to the degradation of a roof surface. Over time, all exterior coating systems will degrade and break down. Exterior stress factors such as extreme UV exposure, exposure to aggressive atmospheres such as coastal locations, chemical fall out, surface spoilage bacteria, moss, lichen and little if any care and maintenance, can all have an effect on the coating's long term aesthetic and mechanical performance properties.

Depending on the condition and composition of the previously painted roof surface, it is possible to recoat an existing, previously painted surface in order to obtain a manufacturer backed warranty. This Roof Coating Guide outlines where the applicable surfaces will be subject to warranty and where warranties will be excluded.

Assess the roof surface:

After a thorough high-pressure water clean of the roof surface at a minimum of 3,000psi, allow the surface to dry for a **minimum 3 days** and inspect the surface for blisters and flaking.

IMPORTANT NOTE: When high pressure water cleaning an existing coated roof surface, allow the surface to dry for a minimum 3 days. Assess the surface for any signs of blistering or other damage from water permeation. If blistering or other coating damage has occurred, complete removal of the existing coating must be undertaken if a warranty is required.

As a mandatory requirement for all Nutech Paint roof coating warranties, a test patch of the recommended coating system must be performed. The test patch required is commonly known as a '**Cross Hatch Adhesion Test**' and should be conducted in accordance with **AS1580.408.4** (see pages 2&3 of this guide). This test patch will require observing all technical recommendations for preparation, application, recoat time and dry times to properly assess inter-coat adhesion between the existing surface and the Nutech roof coating system. There should be no removal of the existing coating or the test Nutech roof coating system. The test results should be documented, photographed and kept on file for reference as part of the warranty requirement.

It is important to understand that any existing, unstable surface that is not addressed at this point, will void any Nutech Roof Coating Manufacturer's Warranty.

Stable, existing painted surfaces:

Following the suitable test assessment and determining that the system will provide excellent adhesion, the appropriate Nutech primer and top-coat system can be used, observing all necessary preparation and application criteria outlined in the relevant product TDS's.

Flaking, blistered, unstable surfaces:

If a warranty system is required for these surfaces, **complete removal of the degraded, unstable surface must be performed** utilising Nu-EcoSafe Strip High Performance stripper, or by mechanical means, observing the details outlined in the relevant TDS.

In some cases this may not be commercially viable. As a consequence, whilst a coating system may be specified, no Manufacturer's Warranty is offered by Nutech Paint.

PVA Roofs (primarily Western Australia)

PVA coated roofs are not suitable for recoating. Complete removal of the coating will be required.



Cross Hatch Adhesion Test on Previously Painted Roofs

Pre painted roof surfaces vary significantly throughout the roof coating industry. Coating composition such as the quality of previously prepared and painted surfaces are not always evident during a visual inspection. If the underlying coating is unstable prior to recoating, long term performance will not be guaranteed by Nutech Paint.

This guide has been developed to provide an overview on how to perform and assess a cross hatch adhesion test in accordance with AS1580.408.4 on a previously painted roof surface.

The reader must understand that this test is a **mandatory requirement** in order to obtain the Nutech Paint Roof Coating System Warranty on a pre painted roof surface.

Failure to perform and record results will void any Nutech Paint Manufacturer's Warranty.

Nutech Tip: Performing this adhesion test during the quotation process is also recommended. This will identify if the existing roof coating has any underlying stability issues which may need to be addressed.

Prior to Commencement of works:

Observe all Occupational Health and Safety (OH&S) precautions.

For further information and support: **Nutech Paint 03 9770 3000**
www.nutechpaint.com.au

Recommended Equipment:

Sharp cutting tool such as an adjustable box cutter
600 grade Scotch Tape or equivalent

PREPARATION:

Prepare the entire roof surface. High pressure water clean at a minimum of 3000psi, in accordance with the roof coating system preparation recommendations, outlined in the relevant **Nutech Product Data Sheets (TDS)**. Allow the surface to dry thoroughly for a minimum 3 days and inspect.

INSPECT:

Inspect the roof surface for any blisters or delamination of existing coating. If blistering and/or delamination has occurred, further steps will be required in order to stabilise the surface. In this instance, the existing surface may require complete removal. For further recommendations, contact Nutech Paint.

NOTE: At this point, it is advisable to contact the property owner and advise them of any existing coating issues which may affect warranty terms and conditions.

If the surface appears stable and has no signs of issues, a Cross Hatch adhesion test can now be performed.

IDENTIFY A TEST AREA:

It is advisable to assess several areas over the entire roof in order to ascertain a more representative, overall condition of the existing coating.

TEST PATCH:

A test patch of the proposed coating system (including primer and topcoat) must be applied in accordance with all recoat and dry time criteria outlined in the relevant Nutech Paint TDS.

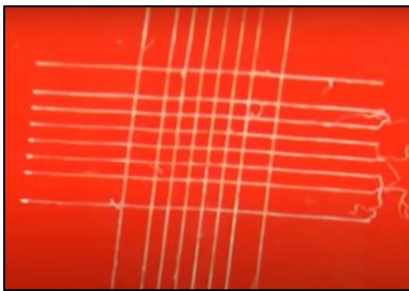


TEST PROCEDURE

Ideal ambient temperature to perform this test should be approximately 18°C to 25°C.

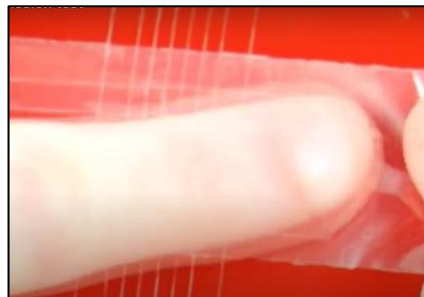
1.

Hold the sharp cutting tool in a plane normal to the surface. With uniform pressure on the cutting tool and using a spacing of 2mm, make 8 parallel cuts not less than 25mm long. All of the cuts shall penetrate to the substrate. Make 8 more parallel cuts at right angles to and crossing the original cuts so that a lattice is formed.



2.

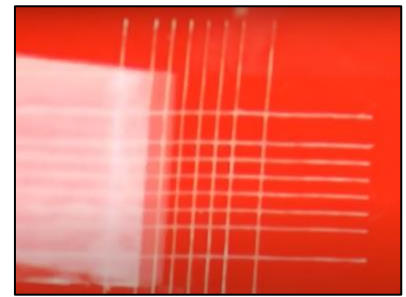
Apply tape (600 grade Scotch or equivalent) 20 mm wide over area of cuts by pressing down firmly against the coating to eliminate voids and air pockets.



3.

Sharply pull tape off at a right angle to the plane of the surface being tested.

Carefully examine the coating and the adhesive tape for detachment.



Result

When the coated test section is tested in the manner described above there shall be no detachment of the coating from the substrate other than debris from the cutting operation.

Nutech

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The information contained in this guide is liable to modification from time to time in the light of experience and our policy of continuous improvement and product development.

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