

Guidelines

Restoration for Existing Painted Roof Tiles

An existing painted roof tile surface can be successfully re-painted subject to several requirements.

If the existing coating is sound and has good adhesion to the tile, the re-coating system is relatively simple subject to the type of paint originally used. Examples of paint systems that may have been used include the following;

1. An original tile coating ie., water or solvent based Acrylic clear coating
2. Enamel paint ie., short or long Alkyd oil paint
3. Clear or coloured solvent based Acrylic paint
4. Clear or coloured water based Acrylic paint,
5. Another coating such as an Epoxy or Polyurethane coatings (possible, although unlikely)
6. A Silicon or another water seal coating system post applied to the roof

In most cases tiles have an Acrylic coating that has either been factory applied or applied on the roof at a later date.

Although Acrylic coatings do not absolutely require an inter-coat primer, Nutech recommends one coat of Nu-Prime applied at 4 square metres per litre. This Primer coat will ensure adhesion in the case of an oxidised paint or porous surface to guarantee inter-coat adhesion.

If the existing paint is peeling or delaminating, a flexible membrane primer is strongly recommended to provide a strong and flexible lateral strength base for top coat systems. Nutech Flexible membrane satisfies this requirement.

A painted surface is usually not porous and any new coating must be allowed sufficient curing time to dry thoroughly before re-coating. Unlike a porous unpainted cement tile, the surface of a painted tile is non-porous and moisture is not absorbed into the substrate. All water in the coating must evaporate into the atmosphere, which may take over 24 hours in cool or high humidity conditions. Premature overcoating of an uncured coat of paint can result in blistering, bubbling and other adhesion related problems.

Whereas a cement tile can be primed and top coated in good weather on the same day and survive rainfall late in the evening or during the next day, a painted surface will not survive under these conditions without some adhesion problem developing.

Based on these guidelines the following re-coating guidelines are recommended;

Sound Paint Condition

1. Clean the roof using a high pressure water cleaner.
2. Apply one coat of NuPrime @ 4 sq.m. per litre
3. Apply two coats of ColourFast, Nuflex or Tileflex 2000 @ 4 sq.m. per litre per coat.

Peeling Paint Condition

1. Clean the roof using a high pressure water cleaner.
2. Apply one coat of Nutech Flexible membrane @ 4 sq.m. per litre
3. Apply two coats of ColourFast, Nuflex or Tileflex 2000 @ 4 sq.m. per litre per coat.

It is important to remember that the adhesion of an original coating can not be guaranteed in any particular circumstance without thorough testing. In the case of other coating systems such as Epoxy or Polyurethane paints testing is more important because intercoat adhesion with an acrylic coating may be very poor.