

Guidelines



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Restoration of Decramastic and Decrabond Metal Tile Roofing



Introduction

Decramastic and Decrabond are aggregate coated steel roofing tiles produced by Decrabond Lightweight Roofing. Originally from New Zealand, Decramastic tiles are older and no longer available in Australia. These light weight metal tiles were constructed of steel with a bitumen layer coated with varied color stone chips.

Decrabond tiles are newer tiles, which are still manufactured. They are light weight metal tiles constructed of steel with an acrylic coating and varied color acrylic chips.

The older Decramastic tiles are more easily surface damaged due to breakdown of the bitumen adhesive layer. Bitumen is an organic material, which is damaged over years by UV light, heat, moisture and various forms of mechanical damage. Loss of stone chips and discoloration due to dirt, moss and lichen are some causes of an unattractive roof appearance.

The newer Decrabond tiles are affected mostly by discoloration from dirt, moss and lichen. The acrylic surface coating is more resistant to damage, however loss of chips may affect the appearance of the tile.

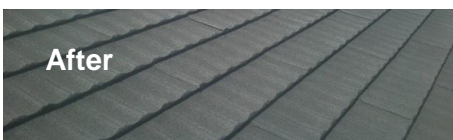
Restoration of Decramastic and Decrabond roofing tiles by an experienced tradesman is relatively easy, provided a number of steps are followed carefully.

The application of one coat of Nutech Metal Primer and two coats of Nutech acrylic roof coating is recommended for a long lasting and durable finish. Re-chipping of the surface may also be needed.

Recoating Materials

Anti-Corrosive
Metal Primer

Tileflex 2000 or NXT Cool Coat



Prior to restoration the surface must be clean and sound (refer below for application instructions). After cleaning Nutech recommends priming to all metal roof surfaces with one coat of Nutech Anti-Corrosion Metal Primer. (see Nutech Tech Data Sheet)

For both Decramastic and Decrabond metal roof tiles Nutech acrylic topcoat emulsion coatings are recommended including Tileflex 2000 enhanced with Self-Cleaning Nano-Technology and NXT Cool Coat Infrared Heat reflective roof coating also enhanced with Self-Cleaning Nano-Technology. Nutech recommends all top color coat systems be applied in a **Matt finish** for a uniform appearance.



Both Tileflex 2000 and NXT Cool Coat are available in 36 standard colors.

Nutech offers color matching if a tailored color range is required.

Nutech Method of Restoration

1) Preparation and Repairs

Any dents in the chip coated tiles should be popped out where possible and if needed tiles can be replaced where they cannot be repaired.

Cleaning

The most important process is in the preparation of the tile surface prior to recoating. The tile surface must be thoroughly cleaned to ensure adequate coating adhesion. Nutech strongly recommends a sort-washing approach when using high pressure water cleaning systems to minimize stone chip loss from cleaning process.

If moss or lichen is growing on the roof surface, it may-be necessary to apply Nutech Eco-Clean Bio degradable cleaning solution on the roof before pressure cleaning the tiles, this Eco-Clean kills the organic growth on contact.

Use a pressure water cleaner with a soft-wash approach to carefully clean the tiles surface of all dirt and organic material, taking care not to cause any additional damage to the original stone chipped coating.

Warning

If too much water pressure is applied, the stone or acrylic chips can be stripped from the tile surface increasing the cost of restoration.

It is important to only stand on the tile valley at overlap point. Do not stand on the tile ridge to avoid bending or damage the metal tile profile. If tiles are already damaged or are inadvertently damaged during restoration, a small pinch bar can be used to straighten the metal tile sheets.

Nutech Recommended Coating System:

First Coat:

One coat of Nutech Anti-Corrosive Metal primer is to be applied to the complete roof using a suitable spray gun, providing a minimum wet thickness of approximately 150 microns per coat. The best finish is achieved with an airless spray gun.

Where stone or granule chips are missing the tile surface will be smooth and will appear different to the rough aggregated surface, as you apply Nutech Anti-Corrosive Metal Primer, top dress bare metal areas by hand casting or sprinkling granule (#stone or acrylic as original) chips onto the surface of the wet coating to match the original aggregate appearance.



If a hopper spray gun is used the acrylic chips can be pre-mixed in the Nutech Anti-Corrosive Metal Primer coating using a low speed drill mixer. The addition rate for the acrylic chips will vary subject to the appearance of the existing roof. **A suggested rate is 2 kgs/4.4 lbs of acrylic chips per 5 gallon pail of Nutech Anti-Corrosive Metal Primer**

#Replacement stone and acrylic chips can be obtained from your local Decra roofing supplier.

For an expert finish the first coat applied is Nutech Anti-Corrosive, using an airless spray gun with a minimum 5-21 tip, apply one heavy coat of Nutech Anti-Corrosive Metal Primer at 825 sqft per 5gallons.

Second Coat:

After the Nutech Anti-Corrosive Metal Primer is completely touch dry (between 30-60 minutes maybe longer in cold weather) apply first color coat of Tileflex 2000 or NXT Cool Coat. **Either product should be applied in a MATTE FINISH.** First color coat should be applied at a minimum of 825 sqft per 5gallon using a 5-21 tip.

Third Coat:

After the first color coat of either Tileflex 2000 or NXT Cool Coat, is completely touch dry (between 30-60 minutes maybe longer in cold weather) apply second color coat of Tileflex 2000 or NXT Cool Coat. **Either product should be applied in a MATTE FINISH.** Second color coat should be applied at a minimum of 825 sqft per 5gallon using a 5-21 tip.



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