



*Weatherproof
Your Home with
Dekro Paints*

Waterproofing Project Case Study:

BLUEBERRY HILL COMPLEX



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PAINTER'S PAL ALL IN ONE WATERPROOFING -

FOR THE WATERPROOFING OF ROOF STRUCTURES

Effective waterproofing is essential for ensuring the longevity and structural integrity of both Nutec and metal roof sheeting. Painter's Pal All-in-One Waterproofing provides a robust and flexible solution designed to protect roofing substrates from water ingress, UV exposure, and premature degradation. Proper application not only extends the lifespan of the roof but also reduces the risk of costly future repairs.

Importance of Waterproofing Nutec Roof Sheeting:

Nutec sheeting, being a fibre-cement product, is porous by nature and can readily absorb moisture if not adequately protected. Persistent moisture exposure may lead to surface deterioration, fungal growth, and compromised structural performance. Applying Painter's Pal All-in-One Waterproofing creates a continuous, breathable, and water-resistant barrier that prevents moisture penetration while allowing trapped vapour to escape—critical for maintaining substrate stability.





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Importance of Waterproofing Metal Roof Sheeting:

Metal roof sheeting is susceptible to corrosion, rust formation, and joint failure when exposed to moisture over time. Waterproofing with Painter's Pal All-in-One Waterproofing provides a seamless protective layer that seals mechanical fasteners, laps, and overlaps, preventing water from entering vulnerable areas. This coating also enhances the durability of the metal surface by protecting it from oxidation and corrosion.





Scope of Works:

Paint Specification (Roof Surfaces)

Nutec and Metal Roof Sheeting

Preparation

Nutec : Wash all fungi infested areas and cracks with Dekro Hydrowash Fungicidal and leave for 24 hours to react. This will kill spores and limit fungal growth. Remove all loose, flaking and powdery paint or surface laitance by hydro blasting.

Metal : Remove all loose, flaking and powdery paint or surface laitance by hydro blasting. Apply two coats of Hydromet Rust Converter to all rust affected areas and allow 4-6 hours drying time between coats.

Application

Apply one coat Hydrolock Primer at 10m²/l and allow 3 hours drying time. Overcoat within 24 hours.

Reinforced 2m²/l : Apply three coats of All-in-one Waterproofing as per detail below:

Apply first coat of All-in-One Waterproofing at 2m²/l and embed Chopped Strand Remat into wet coat.

Apply Second coat of All-in-One Waterproofing coating in a single direction to insure remat is encapsulated. Allow to dry for 1-2 hours.

Apply third and final coat of All-in-One Waterproofing at 4m²/l to insure all remat has been encapsulated.

Un-reinforced 4m²/l

Apply two coats of All-in-One Waterproofing and allow 2-4 hours between coats.





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Methodology:

IMPORTANCE OF THOROUGH SURFACE PREPARATION FOR NUTEC AND METAL ROOF SHEETING PRIOR TO APPLYING PAINTER'S PAL ALL-IN-ONE WATERPROOFING:

Effective waterproofing performance is directly dependent on the quality of the surface preparation completed before applying the final coating system. Nutec fibre-cement boards and metal roof sheeting both present unique challenges that must be addressed to ensure long-term adhesion, durability and full waterproofing integrity when using Painter's Pal All-in-One Waterproofing.

A poorly prepared surface can lead to premature coating failure, blistering, cracking, delamination, and moisture ingress—negating the purpose of the waterproofing system. For this reason, the following preparation stages are essential:

1. HIGH-PRESSURE CLEANING

PURPOSE:

To remove loose contaminants that would interfere with coating adhesion.

PROCESS & IMPORTANCE:

Nutec and metal roof sheeting often accumulate dirt, dust, chalking, degraded paint layers, atmospheric pollutants and biological growth.

High-pressure washing provides a clean, sound substrate required for any waterproofing membrane to bond effectively.

This step also exposes hidden defects, such as hairline cracks or rust spots, which must be addressed before coating.

Without this step, contaminants can remain trapped beneath the waterproofing layer, creating weak points that lead to peeling or blistering.





2. Removal of Fungal Growth Using Dekro Hydrowash Fungicidal

Purpose:

To eliminate active mould, algae, moss and other organic growth that compromises adhesion and affects long-term coating performance.

Process & Importance:

Apply Dekro Hydrowash Fungicidal after high-pressure cleaning to kill remaining spores that may not have been removed mechanically.

Nutec boards, due to their porous structure, and metal roof sheeting in shaded or water-retaining areas, are especially prone to fungal colonization.

Failure to chemically neutralize fungal growth will allow regrowth beneath the waterproofing membrane, eventually causing staining, surface bubbling and adhesion failure.

Dekro Hydrowash ensures the substrate is biologically clean and stable, providing a hygienic, durable foundation for the waterproofing system.

3. Rust Treatment on Metal Roof Sheeting Using Dekro Hydromet Rust Converter

Purpose:

To stabilize areas affected by surface rust and prevent the rusting process from continuing beneath the waterproofing membrane.

Process & Importance:

Inspect all metal sheeting for red rust or early-stage corrosion.

Apply Dekro Hydromet Rust Converter to affected areas. The product chemically converts iron oxide (rust) into a stable, inert layer that can be safely coated.

This treatment stops ongoing corrosion and prevents moisture from tracking beneath the coating system.

Untreated rust will continue to expand beneath the waterproofing membrane, leading to blistering, under film corrosion and eventual system failure.

Proper rust stabilization ensures that the metal substrate remains structurally sound and suitable for long-term waterproof protection.





Why This Preparation is Critical for Painter's Pal All-in-One Waterproofing?

Painter's Pal All-in-One Waterproofing is a flexible, protective membrane designed to provide long-term resistance to water ingress.

However, its performance relies on correct substrate preparation:

Adhesion: Clean, dry, stable surfaces allow the membrane to bond permanently.

Durability: Eliminating rust and fungal activity prevents deterioration beneath the waterproofing film.

Uniform Protection: Properly cleaned substrates ensure even application thickness, which is essential for waterproofing integrity.

Longevity: A well-prepared substrate significantly increases the lifespan of the waterproofing system.

Conclusion:

Thorough surface preparation is not an optional step—it is a fundamental requirement for ensuring the success of the Painter's Pal All-in-One Waterproofing system. By combining high-pressure washing, Dekro Hydrowash Fungicidal treatment, and Dekro Hydromet Rust Converter, both Nutec and metal roofing substrates are stabilised, cleaned and correctly conditioned to receive the final waterproofing coats.

This process safeguards against premature coating failure, moisture intrusion and costly remedial work, ensuring a durable, long-lasting waterproofing solution.

