

INTRODUCTION

KLC's Generation 2 H3.2 MicroPro® (MCA) treated Finger Jointed timber products are supplied pre-primed. KLC Generation 2 H3.2 pre-primed weatherboard and fascia and finishing products have two quality (alkyd) factory applied Oil Based primers. A base coat primer must be applied followed by two top coats for a superior finish and to protect the boards. (refer section 14 below). The KLC's Generation 2 products are Codemark Certified CM70062 and the weatherboards can be used for buildings that fall within the scope of NZS 3604/2012 Timber Framed Buildings and Acceptable Solutions E2/AS1.

Supported by a 50 year treatment warranty. The manufacturing of the products complies – with:

- NZS 3617: Profiles of Weatherboards, Fascia, Boards and Flooring
- NZS 3602:2003 Timber Wood Based Products
- NZS/AS 5068 Finger Joints in Structural Products
- NZS 1328.1:1998 Glued Laminated Structural Timber Meets and Exceeds
- NZS 3640:2003 Preservation of timber and wood-based products

Note: Pre priming does not waterproof the product and care must be taken to ensure dryness of product before final painting. Refer Section 9 and 10

1. TIMBER

Sourced New Zealand Radiata Pine from renewable plantation forestry. KLC is a Chain of Custody, FSC® Certified Company. For more information on timber grades contact KLC.

2. PROFILE CHOICE

Careful consideration during the design process should be given to the choice of profile, the size of the board and the subsequent surface coating in relation to the prevailing weather and exposure conditions at the site. Refer to the KLC Generation 2 full product brochure or our website www.klc.co.nz for profile options. Bevel Back, Rusticated, Splay Cut, Vertical Shiplap and Board and Batten profiles are available.

3. ON-SITE DELIVERY AND HANDLING

KLC weatherboards, fascia and other products should be unloaded by hand, or with a Hiab. Do not tip these products from a truck. Avoid scratching the face of the board, and always carry individual boards with their long sections upright to avoid excessive bending.

4. KOPPERS PERFORMANCE CHEMICALS MICROPRO® WOOD TREATMENT TECHNOLOGY

- The MicroPro® Micronized Copper Azole (MCA) based preservative system protects wood products from insects, termites and fungal decay and is manufactured by Koppers Performance Chemicals. The preservative contains micronised

copper carbonate (copper) and tebuconazole (azole).

- The MicroPro® treatment system is a water-borne, copper-based biocide preservative system with four Environmental Certifications.

Refer www.klc.co.nz for more information on the Environmental Certifications

5. STRUCTURAL ADHESIVE

- Henkel's Purbond® adhesive system is part of the world's first and only polyurethane adhesive system to pass all tests required for ANSI/AITC 405- 2008 certification – the glulam standard. Loctite Purbond® technology aligns with the KLC philosophy of environmental regard, with a solvent system that is formaldehyde free.

<https://www.klc.co.nz/files/3014/9360/3167/LOCTITE-HB-514-PURBOND-SDS.pdf>

6. FACTORY APPLIED PRIMER PAINT

- The 2 coat priming system KLC uses is supplied by PPG. - PPG 839 Enduraprime is a high quality alkyd (oil) based primer formulated as a wood primer, pre acrylic (water based) or alkyd (oil based) top coat applications. This primer has an established reputation as a proven performer as a base coat product and has been used in this market for over 35 years.

- Data sheets for the paint Refer: https://www.klc.co.nz/files/5415/2108/3223/839_Enduraprime_TDS.PDF

7. FINGERJOINTING

- KLC sources Selected Cuttings Grades from our Sawmill suppliers. This timber is then processed through KLC's Kilns and Scanning and Defecting Line to yield Clear short lengths of timber that are then Fingerjointed to lengths ranging from 5.4 to 6.3

8. STORAGE

- KLC Generation 2 Weatherboards and fascia must always remain dry prior to installation. Product should be stored indoors on a flat surface, with gluts/bearers at 1000mm centres and at least 150mm off the ground. Avoid direct sunlight and protect from both rain and ground moisture uptake. If storing outside use a secondary waterproof cover and groundsheet whilst allowing for good air circulation.

9. ACCLIMATISATION

- At the time of installation, the cladding moisture content must be near the average moisture content which can be expected at site (typically 10 – 15% depending on the location and the time of year). - KLC recommends that weatherboards are not installed if the Moisture Content is over 15%

10. DIMENSIONAL CHANGE

- Timber is hygroscopic (absorbs moisture from the atmosphere) and will take up and release moisture until it reaches the equilibrium moisture content (EMC) with the surrounding environment. During this process, which is ongoing, the timber expands and contracts and thus some dimensional change will occur, this will be minimised by the application of a quality paint system.

11. WEATHERBOARD MOVEMENT

- Timber weatherboards are designed to accommodate moisture, thermal and seismic movement in the board laps. **DO NOT USE ANY SEALANTS OR GLUES** between the boards or board laps, as this may inhibit the natural expansion and contraction of the cladding.

12. LAPLINES

- To avoid lap lines which may occur, particularly on wider profiles, pre-paint the top 40mm of Bevelback profiles, 25mm for Vertical Shiplap and the top 32mm of Rusticated profiles in the same colour as the intended topcoat finish.

13. WEATHERBOARDS INSTALLATION

- Weatherboard and fascia should be installed as per the current building code NZ3604 and BRANZ recommended good building practices.
- Refer to the KLC Generation 2 Installation Guidelines on the website_ <https://www.klc.co.nz/index.php/installation-guides>

14. FINISHING AND PAINTING

- When using KLC's Generation 2 pre-primed weatherboards and fascia ensure an undercoat base coat and 2 topcoat painting occurs soon as possible after installation. If boards have been exposed for longer than 4 weeks, some dimensional swelling or distortion of the board may have occurred during unprotected exposure to the elements. Note, some sanding and re-priming may be required.

Check for:

- 1 The moisture content of the boards before painting. Equilibrium Moisture Content (EMC) should be at 15% or less. Use a correctly calibrated moisture meter to check.
- 2 Once installed, remove any dirt and surface contamination by sanding and dusting down. Spot-prime any exposed timber with two coats of oil primer. Spot-prime the filled nail holes. Any sealants used should be of a flexible exterior grade and suitable for over coating with acrylic paint
- 3 Once undercoated, simply apply two coats of 100% premium acrylic low gloss house paint to the manufacturer's specification, at a rate of 12-14m²/L.

- 4 Once applied, the two topcoats should have a combined thickness of no less than 50microns.
- 5 The onus is on the painter to ensure that the primed surface remains well adhered to the timber substrate and is a suitable base for the subsequent topcoats. This is particularly important where the boards have been exposed for longer than 4 weeks before top coating. Painters should refer to the AS/NZ 2311:2017 Guide to Painting Buildings.

NOTE: The KLC warranty will be void if dark colours with a Light Reflectance Value (LRV) less than 45 are used.

15. COLOUR CHOICE

- Darker colours will absorb heat from the sun and may cause excessive movement, distortion, splitting and possible resin bleed.

Light colours reflect the sun's heat. Therefore, only light colours with a light reflective value (LRV) of greater than or equal to 45% may be used. Refer paint colour charts for details.

16. RESIN BLEED

- Resin bleed is a natural by-product of Radiata weatherboards and fascia, which sometimes occurs. The MCA MicroPro® treatment reduces the effects of resin bleed if the painting guidelines have been adhered to.

The choice of a light top colour choice and a correctly applied quality paint system will help to minimise this occurrence.

KLC will not be liable for any losses incurred resulting from the failure to adhere to the current building code NZ3604 and BRANZ recommended good building practices and Painters should refer to the AS/NZ 2311:2017 Guide to Painting Buildings.

Although every effort has been made to ensure the information in this data sheet compiles with existing building standards and recognised codes of practice, no responsibility is accepted for any errors and omissions nor for any specifications or work based on the this information.