

OVER AN EXISTING TIMBER FLOOR OR SOFTWOOD PANEL SUBSTRATE



GENERAL

Timber is a natural product and will absorb and transpire moisture during its life, so as flooring, there will always be movement in individual boards.

The care taken during handling, installation and finishing will minimise this movement. To achieve the best possible end result with traditional hardwood timber flooring products it is essential that correct procedures are followed.

PRODUCTS

ROSENFELD KIDSON SOLID T&G FLOORING

Solid timber flooring is available in a range of species, grades and sizes. Thicknesses range from 13mm overlay to 21mm thick boards. Refer to Rosenfeld Kidson Solid Timber Flooring Brochure to see the full range.

TIMBER TRIM

Solid timber trim available to compliment flooring choice, such as skirting, architrave and stair nosing.

PRIMER

Handley Industries H-Bond Primer and Bonding Agent.

LEVELLING COMPOUND (IF REQUIRED)

Handley Industries Floor Levelling Compound Blend #800.

ADHESIVES

Handley Industries Uni-Stick One Component Timber Flooring Adhesive.

COATING PRODUCT

Rubio Monocoat Oil Plus 2C

Handley Industries Aquapol Water borne Polyurethane – Satin/Lo-sheen/Matt/Matt Plus

Handley Industries Solvent borne Polyurethane – Gloss/Satin/Lo-sheen

BEFORE INSTALLATION

CHECK TIMBER

Prior to laying, check the timber is the correct species, grade and size. Check the quantity is correct and no excessive damage has occurred in transportation.

Check the moisture content of the timber flooring with a calibrated moisture meter to ensure it is within the specified range.

DO NOT START

Do not start laying before the building is enclosed, doors are hung and lockable, including the garage, wet work complete, full lighting available and in the case of air-conditioned buildings the air-conditioning has been operating for four weeks.

INSTALLATION

SUBFLOOR PREPARATION

Ensure the existing floor or plywood/particleboard subfloor is structurally sound. Where the subfloor is structurally sound, either overlay flooring (12-14mm) or structural 19mm flooring can be laid.

Adhesives require a clean, structurally sound floor that is free from surface moisture, loose particles and contaminants. This includes removal by sanding of the surface layer if a coating is present.

Check the subfloor moisture content. Prior to laying, the new floor should be of similar moisture content to the subfloor.

EXISTING FLOORS

Top (face) nails of existing floors should be re-punched where necessary and boards fully screwed to joists. Existing flooring should be fully screwed and countersunk to the joists. It is recommended to epoxy fill any gaps present in existing floors, prior to levelling and/or installing new timber flooring.

The existing floor should be rough sanded to provide an appropriate surface over which the new floor is to be fixed. Squeaking present in an existing T&G floor may be reduced by providing a bead of flooring adhesive to fill any gaps between the underside of the flooring and tops of the joists.

LEVELLING (IF REQUIRED)

The timber subfloor must be level. The maximum allowable tolerance in level is 3mm in 3m.

Blend #800 is a rapid-setting, cementitious, self-levelling flooring compound designed to produce a heavy-duty wear surface or for preparation of subfloors prior to the laying of timber flooring.

Refer to the manufacturer's specifications for detailed application information.

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Priming

The subfloor should be primed with Handley 'H-Bond'.

Apply undiluted H-Bond thinly and evenly with a roller or soft broom being careful to avoid ponding. One coat is typically sufficient; however, very porous substrates may require a second coat. Allow to dry thoroughly. The correct coverage rate is approximately 10m² per litre, depending on substrate porosity.

Mixing

Mix 20kg bag of Blend #800 with 4.5 litre of fresh tap water. Do not over-water.

Tip all the water into a suitable bucket and add half the powder. Mix with a drill and suitable paddle until lump-free, before adding remaining powder. Continue to mix for about one minute and ensure mixture is lump-free.

Application

Pour mixture to subfloor and place with trowel, if required. Working time is approximately 10-20 minutes, depending on atmospheric conditions. Do not re-work after mixture has set-up.

Curing

Curing time is dependent on ambient temperature. As a guide, initial set time is about 60 minutes at 20°C, with flooring covering able to be laid after 16-18 hours.

FLOORING INSTALLATION

Installation of flooring onto an existing floor or plywood/ particleboard subfloor is typically done by secret fixing.

The secret fixing of 12-14mm overlay boards requires one 38mm x 16 gauge cleat at approximately 300mm centres. 19-21mm floor boards require one 50mm x 16 gauge cleat at approximately 300mm centres (such as Primattech brand).

When laying over an existing floor, new flooring may be laid at any orientation, provided the substrate is within the required flatness tolerances and clean for adhesive fixing.

Refer to the manufacturer's specifications for detailed application information.

Apply a full bed of Uni-Stick adhesive to the manufacturer's instructions.

If there are potential concerns with seasonal movement of a T&G subfloor, a fibre cement or plywood underlay may be used, adhesively fixed with Uni-Stick.

If there are concerns about the structural integrity of the subfloor, the existing flooring should be lifted and replaced with 19mm structural plywood, adhesively fixed with Uni-Stick and screwed to the joists.

ACCLIMATISATION

Following installation and prior to finishing, flooring should be left for a period of two weeks or more to allow acclimatisation to the final ambient room conditions, with heating or air-conditioning systems running, if present.

FINISHING**Protection**

Timber floors must be protected from damage that could occur before the floor is coated and/or the building work is finished – typically softboard sheets should be laid over the surface to provide protection from foot traffic and dropped tools before and after sanding and coating.

Preparation

Epoxy fill knots, if present e.g. 'Feature Grade Oak'. Solid timber floors require sanding before the application of a coating system to ensure joints are level and all machine marks in the timber are removed. Good preparation of the surface is crucial for an optimum finish. The surface must be clean, dry and free from wax, grease or dust. All previous coatings must be removed. The surface should be fine sanded with a 150# sandpaper or screen disc and then vacuumed thoroughly.

Recommended floor finishing options include Rubio Monocoat Oil and Handley's Polyurethane.

RUBIO MONOCOAT OIL PLUS 2C

Refer to the manufacturer's specifications for detailed application information.

RMC Cleaner is a cleaner which, following the sanding and vacuuming processes thoroughly cleans the surface preparing it for treatment with Rubio Monocoat Oil.

Colouring and protecting is done with RMC Oil Plus 2C.

Carefully mix and stir the two components. Apply a small amount of RMC Oil Plus 2C and spread it out with a cloth, a brush or polisher with a thin beige pad. Treat one zone of 5-10m² at a time.

Leave to react for a couple of minutes. Remove all excess oil with a non-fluffy cloth or polisher with a thin white pad with 15 minutes per zone. The surface should feel hand-dry after removal of the excess product.

In a well ventilated room, the surface can be used 24-36 hours after the application.

HANDLEY'S WATERBOURNE & SOLVENTBOURNE POLYURETHANES

Refer to the manufacturer's specifications for detailed application information.

Waterbourne polyurethanes are not recommended on dark-coloured timbers, such as Kwila and Jarrah.

Apply the first coat evenly with a Handley approved floor coating applicator, 10mm nap roller or soft brush and allow to dry (3 to 6 hours). Lightly sand with 240# sandpaper, vacuum thoroughly and apply a second coat. Repeat this procedure until the desired finish has been attained – normally 3-4 coats are sufficient.

Coverage is approximately 8-10 sq m²/ltr (depending on porosity).

As complete curing of a polyurethane floor takes a full 7 days (usually waterproof after 3 days), care must be exercised during this time. Avoid dragging furniture etc. over the surface. Use protective mats in traffic areas. To extend the life of the floor, mats should be used in doorways in order to remove dirt and grit from feet.

Protective pads should be used on the legs of furniture. The floor should be swept frequently and washed with hot water and a small amount of dishwashing detergent, after seven days curing.

DOCUMENTS

The following documents may be applicable to this work:

NZBC C/AS2-AS7	Protection from fire
NZBC C/VM2	Protection from fire
NZBC D1/AS1	Access routes
NZS 3604	Timber-framed buildings
AS/NZS 2269.0	Plywood – Structural – Specifications
AS 4586	Slip resistance classification of new pedestrian surface material
ISO 9705	Fire tests – Full scale room test for surface products
BRANZ BU 330	Thin flooring materials – 2 Preparation and laying
BRANZ BU 506	Laying Solid Strip Flooring on Concrete Slabs
ATFA	Australian Timber Flooring Association – Solid Timber Flooring Industry Standard Technical Publication Version 3 – June 2016

MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to this part of the work:

Rosenfeld Kidson Solid Timber Flooring Brochure
 Rosenfeld Kidson Solid Timber Flooring Specification
 Rosenfeld Kidson timber flooring profile drawings
 Handley Industries Uni-Stick Timber Flooring Adhesive Brochure
 Handley Industries Uni-Stick Timber Flooring Adhesive Directions for Use
 Handley Industries Uni-Stick Flooring Adhesive Material Safety Data Sheet
 Handley Industries 'H'-Bond Primer and Bonding Agent Brochure
 Handley Industries Blend #800 Floor Levelling Compound Brochure
 Handley Industries Blend #150/Blend #800 Material Safety Data Sheet
 Handley Industries Aquapol Water Bourne Polyurethane – Satin, Low-sheen, Matt and Matt Plus
 Handley Industries Solvent Bourne Polyurethane – Gloss, Satin or Low-sheen
 Rubio Monocoat Application Instructions
 Rubio Monocoat Care and Maintenance Guide
 Rubio Monocoat Oil Plus 2C Material Safety Data Sheet



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