AUIE00027 Intergrain Enviropro Endure 2 Pack Satin

Introduction

Part A	Part B
701 W0220	**701 W0222**

Description and Image

Intergrain Enviropro Endure 2 Pack is an extremely durable, clear water based polyurethane for interior timber, parquetry and cork floors. It can also be used to refresh Floating Floors. Endure 2 Pack is designed to maintain the natural colour of timber and is available in Matt, Satin and Gloss sheen levels. Endure 2 Pack uses cross-linking technology to provide resistance to abrasion, foot traffic, water, alcohol and mild chemicals, making it ideal for use in high traffic areas and commercial environments. Endure 2 Pack is low odour, quick drying (re-coat in 4 hours) and unlike oil based finishes, will not darken or yellow over time. Being water based, Endure 2 Pack emits significantly less VOCs (volatile organic compounds) into the atmosphere than traditional solvent based finishes and meets the VOC requirements of the GBCA. So, combined with being safer to use, Endure 2 pack is much gentler on the environment.

Green building compliant
The Green Building Council of Australia (GBCA) target for VOC level of floor coatings is less than 140 grams per litre of VOC. Endure 2 Pack can be used on Green Star Buildings as it emits significantly less VOCs than the target set by the GBCA. Refer to the datasheet on www.duspec.com.au for the actual VOC level of Endure 2 Pack.

Slip resistance
A slip resistant finish can be achieved by adding Intergrain UltraGrip at a level of 5% to Intergrain Enviropro Endure. When tested according to AS4586:2013, the following slip ratings are achieved:
Endure 2 Pack with UltraGrip in 1 coat = P4
Endure 2 Pack with UltraGrip in 2 coats = P5
See application guide section for system details.

Features and Benefits

- Extremely durable 2 pack polyurethane.
- Environmentally friendly.
- Water-based.
- Suitable for high traffic areas and commercial environments.
- Safer to use and gentle on the environment.
- Quick drying and low odour.

Uses

On interior timber and parquetry floors. May be used on cork and floating floors in certain situations.

Precautions and Limitations

Do not apply in temperatures above 35°C or below 10°C. If using in temperatures above 30°C, Enviropro Wet Edge Extender can be added to Endure 2 Pack to a maximum of 5%, to ease application, follow instructions on the Wet Edge Extender label.

Performance Guide

Weather **Interior use only.**	Heat Resistance **Up to 100C.**
Water **Good for splashes and spillage.**	Abrasion **Excellent.**

Typical Properties

Gloss Level
30%-40% at 60°

Colour
Clear

Components	Number of Coats
2	**2-3**

Toxicity	V.O.C. Level
Non toxic	**<135 g/L (Part A + Part B)**

Meets GBCA V.O.C. Requirements?
Yes
Total Volatile Organic Content (TVOC) values are calculated in accordance to the stated methodology within Green Star Technical Manuals. The TVOC content is theoretically calculated as the sum total of the known VOC values of the product's raw material components. These materials include the base paint plus additional low VOC tinter required for non-factory packaged colours.

Mixing Ratio
9:1

Pot Life	Touch Dry
3 hours	**1 hour**

Clean Up
Water

Application Methods
Brush **Roller**

Application Conditions

Solids by Volume: **30**

	Min	Max	Recommended
Wet Film Per Coat (microns)			**100**
Dry Film Per Coat (microns)			**30**
Recoat Time (min/hours)	**4 hours**		
Theoretical Spread Rate (m²/L)		**10**	**10**

Typical Property Notes

Coverage
8 – 10m2/L depending on the porosity of the timber.

Dry times
Dry times are based on drying conditions of 25°C and 50% relative humidity. Drying times will be longer in conditions cooler than 25°c or more humid than 50% humidity.

Touch Dry
1 hour.

Re-coat
Allow a minimum of 4 hours drying between coats. Cold or humid conditions will require longer. Floors will take light foot traffic after 12 hours, and normal foot traffic after 72 hours.

Full cure
Allow 7 days.

Application Guide

Surface Preparation

All surfaces must be clean, dry, free of wax, grease, dust and other contaminants. The presence of contaminants increases the possibility of rejection and delamination. Clean oily timbers such as Brushbox, Spotted Gum, Cypress and Tallowwood with methylated spirits and allow to dry. Prepare cork in accordance with cork manufacturer's specifications. If uneven, the surface should be sanded with coarse sandpaper.
All nail holes and cracks should be filled with Intergrain Woodblend™ putty, do not use Linseed Oil putty. Fine sand the floor finishing with 100 grit sandpaper, then with 150 mesh screen and vacuum thoroughly with a commercial grade vacuum cleaner to remove any sanding dust.

Application Procedure and Equipment

Mixing
Mix Endure 2 Pack Part A and Endure 2 Pack Part B at a ratio of 9 to 1 and shake for at least 2 minutes to ensure it is thoroughly combined. Strain product if required before use.

Pot life
3 hours, Endure 2 Pack must be used within 3 hours of mixing.

Application
It is recommended to shield doorways, fireplaces and windows from dust, dirt or other contaminants settling on the surface between coats, as this will affect the finished appearance. Do not completely seal, as adequate ventilation is required to assist with drying. Do not apply in temperatures above 35°C or below 10°C. If using in temperatures above 30°C, Enviropro Wet Edge Extender can be added to Endure 2 Pack to a maximum of 5%, to ease application, follow instructions on the Wet Edge Extender label.

New timber
Apply 1 coat of Enviropro Timberseal™ or Timberseal Ultra following the instructions on the label. Lightly sand Timberseal Ultra with a worn 180 mesh screen if needed. If using Timberseal, do not sand. Apply 2 coats of Endure 2 Pack using a 10mm nap microfibre roller. To improve adhesion and minimise grain raise, it is recommended to screen between coats with a worn 150 grit screen or 180 grit screen. To increase the wear resistance, apply 3 coats of Endure 2 Pack. On porous timbers, apply 3 coats of Endure 2 Pack to ensure a uniform finish.

Previously finished surfaces including Floating Floors
Wash the floor with Enviropro Squeaky Clean™ as per the label instructions. Sand to a dull finish with a 100 grit screen, vacuum thoroughly to remove dust, then wipe clean with a damp rag. To ensure adhesion, a test patch is recommended after the surface has been prepared.
Apply a small test area with Endure 2 Pack, allow to dry for 24 hours then firmly press a strip of sticky tape over the coating and rip off quickly. If the coating is removed, sand the full surface back to bare timber. If the coating is not removed, sand the test area back to a dull finish. Apply 1-2 coats of Endure 2 Pack using a 10mm nap microfibre roller. If patches of the previous coating have worn back to expose bare timber, the full floor must be sanded back to bare timber, and product applied as per 'new timber' directions.

Wear resistance (Taber Abrasion)
1.6 mg per 100 cycles (AS1580.403.2-2006)

Slip resistance
Intergrain UltraGrip can be added to Endure 2 Pack Matt and Satin to achieve a more slip resistant finish. It is not recommended to add Intergrain UltraGrip to Endure 2 Pack Gloss as it will dull the gloss finish. For more information about system requirements refer to the datasheet on www.duspec.com.au. Add UltraGrip according to product instructions.
A slip resistant finish can be obtained by applying one of the following applicable systems: Tested to AS 4586:2013 Slip resistance classification of new pedestrian surface materials.

To achieve a WET Pendulum rating of P4
- 1 coat Enviropro Timberseal Ultra.
- 1 coat Enviropro Endure 2 Pack Satin, with 5% Intergrain UltraGrip added.
- 1 coat Enviropro Endure 2 Pack Satin.

To achieve a WET Pendulum rating of P5
- 1 coat Enviropro Timberseal Ultra.
- 2 coats Enviropro Endure 2 Pack Satin, with 5% Intergrain UltraGrip added to each coat.

Intergrain UltraGrip must be added at a rate of 5%. That is:
- 250g of UltraGrip for 5L of coating
When UltraGrip is added, the sheen or gloss level of the resultant coating will be lower than normal. When using UltraGrip, do not sand the coat that contains the UltraGrip. When using UltraGrip with Endure 2 Pack, decant the Endure product into another clean container before adding the UltraGrip. While stirring, add UltraGrip slowly to avoid generating dust. Stir in UltraGrip thoroughly with a flat blade stirrer or drill mixer until fully mixed in and lump-free. Then add Endure Part B and mix thoroughly. Stir regularly during use.

Maintaining a slip resistance finish
In order to maintain a slip resistant finish, the floor must be recoated as the slip resistance decreases due to wear. When re-coating is required

- Clean the surface with Enviropro Squeaky Clean, following label instructions.
- Allow the floor to fully dry.
- Lightly sand the existing coating.
- Remove all sanding dust.
- Apply 1 coat of Enviropro Endure 2 Pack Satin with 5% Intergrain UltraGrip added. Follow label instructions.
- Allow to dry.
- Apply 1 coat of Enviropro Endure 2 Pack Satin. Follow label instructions.

Health and Safety	
SDS Number **DLXGHSEN001705 Endure 2 Pack Part A Satin**	SDS Link **View SDS Link**
SDS Number **DLXGHSEN001706 Endure 2 Pack Part B**	SDS Link
Using Safety Precautions Avoid contact with skin and eyes or breathing vapour and spray mist (dust). Wear waterproof gloves and safety glasses. Use only in well ventilated areas. Wash hands after use. Slippery when spilt; clean up immediately.	
Please refer to SDS Link. In case of emergency, please call 1800 220 770.	

Transport and Storage	
Pack A **701 W0220**	
Size: **4.5L**	Weight: **5kg**
Please refer to the Safety Data Sheet for full safety, health and transportation information.	

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The correct colour or colour match is the responsibility of the applicator. Colours will change over time and Dulux does not guarantee that the same colour newly mixed will match a colour applied earlier which has been subjected to weathering or other change elements. No product colour is guaranteed against colour change.

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WHERE LEAD MAY BE PRESENT: The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate the lead. If lead is present, the work must be done in strict accordance with AS 4361 Parts 1 and 2 and Worksafe Australia guidelines.