

ENVIROPRO

High Performance Non-Toxic Coatings of Distinction for
Timber, Cork and Parquetry

PRODUCT DATA SHEET

Endure 2 Pack Non-Toxic Polyurethane

DESCRIPTION:

Enviropro Endure 2 Pack introduces the ultimate in non-toxic Polyurethane 2 pack technology.

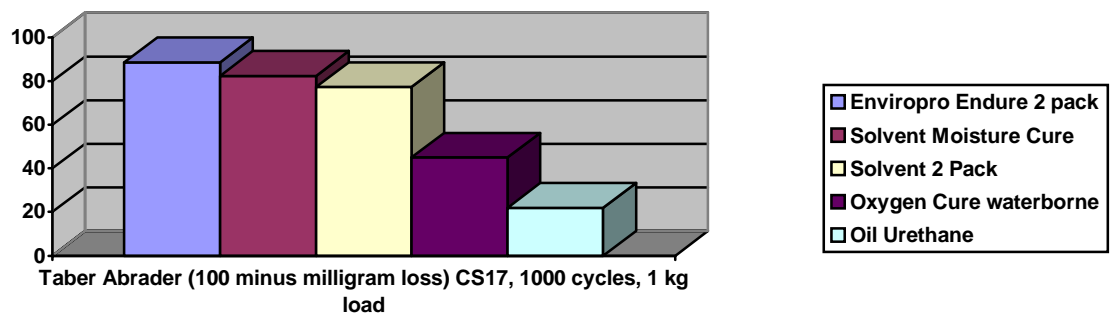
Endure 2 pack is an ideal non-toxic Polyurethane replacement for toxic solvent types in both;

- Timber Floor coatings
- Performance overcoat over high build Epoxy over concrete

Finally, waterborne technology exceeds the wear resistance of toxic solventbornes (via International Taber Abrader CS17 test), removing the last technical barrier to their use.

Enviropro Endure 2 Pack exhibits very high hardness and exceptional scuff and heel mark resistance while maintaining good flexibility for edge bonding resistance.

Enviropro Endure 2 Pack is produced when Endure 100% Polyurethane is mixed with a TDI free Polyisocyanate Hardener to give the ultimate in toughness and durability for a non-toxic coating.



FEATURES:

- Non-Yellowing
- No Cancer causing Toluene Diisocyanate as in all toxic solventborne Polyurethanes
- Good Edge Gluing resistance
- Good sandability
- Mixing of Endure and the 2 pack Hardener is by simple shaking
- Waterborne and non-toxic (Federal Hazardous Substances Act USA)
- No respiratory protection needed in use.
- High film build from viscosity / solids ratio
- Maintains more of a natural timber look
- Roller, brush and applicator applicable
- Highly resistant to Tannin staining (eg Blackbutt and Tasmanian Oak)

- Application lap mark resistant

RECOMMENDED USES

- Commercial - Restaurants, offices, hotels, dance floors, resorts, retail stores
- Residential - Heavy duty requirements including kitchens, rumpus rooms, family rooms, etc.
- Institutional - Schools, nursing homes
- Halls - Multi-use halls where usage is severe.

Enviropro 2 Pack is designed as a 3 coat system.

Coat 1 Enviropro Sealer (recommended)

Coat 2 can be Endure 1 pack or 2 Pack if severe floor use is expected (recommended)

Coat 3 is Enviropro 2 pack (Endure one pack plus hardener)

DIRECTIONS FOR USE

New or bare timber floors

- The timber or cork surface should be finished to a 150 or finer grit smoothness.
 - **Enviropro Endure** or **Enviropro Sealer** can be applied by roller, brush or bar applicator tool.
 - Satin containers of **Endure** should be shaken well before use to reincorporate any matting agent that may have settled in storage
 - **To produce the 2 pack add the Hardener to the Endure**
 - **1 x 500 ml bottle of hardener is designed to convert one 4.5 litre bottle of Endure to produce Endure 2 pack**
 - **1 graduation of the hardener to one litre of Endure makes the 2 pack**
 - **Immediately shake vigorously for 2 minutes then allow to stand for 10 minutes before use to allow for defoaming and best viscosity**
 - **Strain through stocking before use.**
 - Cut in edges with a brush or paint pad. Cutting-in should only be applied ahead of the coating proper, in relation to prevailing weather conditions
 - Coat the main floor area in a manner consistent with the type of application tool.
 - **For roller application** use an application tray or bucket. A 10 - 12 mm nap quality waterbased type roller cover is recommended to allow for desired film thickness. Finishing strokes in the direction of boards are always desirable where possible to avoid lap marks
For bar applicator pad apply technique, cut edge in with a paint pad or brush.. Pour a 10 cm puddle along the direction of the starting wall. The starting wall should go with a timber direction.
 Using a predampened applicator in a 'snow plough' action, spread apply the sealer coat moving the puddle toward the opposite wall. Ensure a wet edge is maintained.
 Overlap should be approx. 50 % of the width of the applicator.
 At the end of each stroke, turn the applicator to change direction in a smooth action while maintaining contact with the floor. Periodically pad out the applicator to remove any foaming material.
 Feather the swirls from change of direction of earlier passes.
 - **Enviropro Sealer** may be used as a first coat should lighter colour, reduced cost and maximum edge bonding resistance be desired.
 - Abrading of the first coat is not required where coat 2 is applied within 4 hours. Note higher grain raise on grain-reactive timbers such as Tasmanian Oak , Pines and Victorian Ash will occur. Finer fine sanding of timber will minimise the grain raise.
 - Screen or lightly abrade between coats. A worn 180 or finer grit paper or screen back is recommended.
 - Do not overscreen as dull spots may 'witness' or 'ghost' through the next applied coat.
 - Seal all windows and doors to have as draught free as possible for the final coat.
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Recoating Previously Coated Floors

- **Enviropro Endure 2 Pack** can be used to recoat floors previously coated with a 100% urethane or a Urethane / Acrylate (Bona, Toby, Polycure, Cabots, Watty) Most solvent borne coatings can be overcoated with Enviropro **but a test area is always required to validate**. Use the cross hatch test or call ASWC for advice.
- Wet scrubbing the floor with a scrubbing pad under the rotary and using **Enviropro Recoating Stripper** is recommended prior to screening with a 150 grade paper or screen.
- If the screening indicates the floor is not flat (many old floors are cupped or dished) adhesion of any overcoat can be adversely compromised. Enviropro should only be used on flat floors where full contact screening is realised.
- Coat as per a final coat application per above.

DRYING

- In 'normal' drying conditions of approx. 25 deg C, **Enviropro Endure 2 Pack** will be dry to take light foot traffic in 10 to 12 hours. Always test to make sure no sock imprint in the coating first.
- Next day use 'with care' of the floor is generally realised.
- Full cure will take typically 3 days

CLEAN-UP

Tools and containers can be cleaned up in water.

A storage canister is recommended for application equipment. Contact ASWC for design details if needed.

PROPERTIES AND DATA

Ingredients	-	Part A = Polyurethane dispersion. Part B = non-TDI Hardener.
Colour	-	Milky white when wet, clear thin film when dry
Odour	-	Slightly sweet and non offending
Density	-	1.04 S.G.
Application	-	Roller, brush or bar applicator tool
Flammability	-	non flammable
Stability	-	12 months in unopened containers
Solids	-	36.0 %
Viscosity	-	24 secs #4 Ford Cup @ 25 deg C
Defoaming	-	Excellent
Coverage	-	10 to 14 sq. m. per L dependent on technique
Pot life	-	Of mixed 2 components is approx 2 hours
Rejection	-	Excellent resistance
Safety	-	Extremely safe to use; refer Material Safety Data Sheet available upon request
Packaging	-	4.5 litre part A and 0.5 litre part B

24 HOUR INFORMATION HOTLINE - 0414 793 237

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Developed and produced in Australia from the latest in world wide non-toxic technology by; Australian Specialty Waterborne Coatings Pty Ltd ACN 070 919 854, 1 Gurners Lane, Lonsdale, SA 5160 Ph 08 8326 0092 24 hour 0414 793 237 web site www.enviropro.net.au , email enviropro@aswc.com.au
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