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Truly sustainable design means considering the environmental impact of all construction materials right down to the paints and finishes.



LIVOS - OUR PRINCIPLES

GUIDING PRINCIPLES:

- Sustainable economic management
- Closed looped material cycles
- High technical quality
- Consciousness and self-reliance of the consumer
- Acting for the benefit of customers
- Environmental protection

LIVOS PRODUCTS FROM A TECHNICAL ASPECT: USER BENEFITS

- High quality standard
- Easy application with all established procedures
- Easy rejuvenation and repair possibilities
- Economical coverage
- An intermediate sanding is the exception
- Special effects with simple application
- Easy care

LIVOS PRODUCTS FROM A HEALTH PERSPECTIVE:

- Free of toxic substances
- Selected solvent-free products
- No development of harmful vapours during application
- No harmful gas emission from the dried coating
- Harmonizing effect on the indoor climate
- Antistatic effect, i.e. reduction of dust exposure

LIVOS PRODUCTS FROM ECOLOGICAL ASPECTS:

- Based on renewable raw materials
- Completely biodegradable ingredients
- Safe for humans, animals, plants, even in direct contact
- Production without environmental impact
- Easy recycling
- Human, environment, and posterity compatibility

MATERIAL or PURPOSE	PRODUCTS		
FLOORS- INTERNAL TIMBER (SOFTWOODS)	ARDVOS Universal Wood Oil # 266	or	KUNOS Natural Oil Sealer # 244 (clear or stain)
FLOORS- INTERNAL TIMBER (HARDWOODS)	ARDVOS Universal Wood Oil # 266	or	KUNOS Natural Oil Sealer # 244 (clear or stain)
CORK	KUNOS Natural Oil Sealer # 244 (clear or stain)		
CONCRETE	Prime With LINUS Priming Oil # 260, then oil with KUNOS Natural Oil Sealer	or	ARDVOS Universal Wood Oil # 266, may be tinted with 5% VINDO Gloss Paint # 629 quantity depends on many factors especially the porosity of the surface.
BAMBOO	KUNOS Natural Oil Sealer # 244 (clear or stain)		
SLATE	Prime With LINUS Priming Oil # 260 (if necessary) , then oil with KUNOS Natural Oil Sealer		
FURNITURE - INTERNAL	KUNOS Natural Oil Sealer # 244 (clear or stain) or KUNOS Countertop Oil # 243	or	ARDVOS Universal Wood Oil # 266 or KALDET Wood Stain # 270 (clear or stain)
FURNITURE - EXTERNAL	ALIS Decking Oil # 579 (6 stains)		
DECKING & OTHER EXTERIOR TIMBER	ALIS Decking Oil # 579 (6 stains)		There is no clear in a truly natural finish that withstands UV rays and weathering. Boxtree is the closest.
WAXING	BIVOS Oil Wax # 375	or	GLIEVO Liquid Beeswax # 315
WALLS- GYPROCK	1 Coat GRAVA Paint Primer # 408, followed by 2-3 coats DUBRON Wall and Ceiling Paint # 412		
RAMMED EARTH	ARDVOS Universal Wood Oil # 266	or	1 Coat GRAVA Paint Primer # 408, followed by 2-3 coats DUBRON Wall and Ceiling Paint # 412 both methods are vapour permeable
MUD BRICK	ARDVOS Universal Wood Oil # 266	or	1 Coat GRAVA Paint Primer # 408, followed by 2-3 coats DUBRON Wall and Ceiling Paint # 412 both methods are vapour permeable
PLY	KALDET Wood Stain # 270 (clear or stain)	or	KUNOS Natural Oil Sealer # 244 (clear or stain) With a shorter saturation time These are some possibilities one may use on various materials. These suggestions are made from Manufactures recommendations, our long term use with the products and client feedback. Making a sample is often the best way to trial product and outcome. For more information www.livos.com.au
MULTIPLEX	KALDET Wood Stain # 270 (clear or stain)	or	KUNOS Natural Oil Sealer # 244 (clear or stain)
OSB BOARD	KALDET Wood Stain # 270 (clear or stain)	or	KUNOS Natural Oil Sealer # 244 (clear or stain)
DOORS, WINDOWS INTERNAL- OILED	ARDVOS Universal Wood Oil # 266	or	KUNOS Natural Oil Sealer # 244 (clear or stain)
DOORS, WINDOWS INTERNAL-PAINTED	Prime first with MENOS Wood Primer # 626, then VINDO Gloss Paint # 629	or	Prime first with MENOS Wood Primer # 626, then CANTO Satin Paint # 692
DOORS, WINDOWS EXTERNAL - OILED	ALIS Decking Oil # 579 (6 stains)		
DOORS, WINDOWS EXTERNAL - PAINTED	Prime first with MENOS Wood Primer # 626 then VINDO Gloss Paint # 629		
METAL	DURO Metal Primer # 623 followed by 2 coats VINDO gloss paint # 629 (in & externally)	or	DURO Metal Primer # 623 followed by 2 coats CANTO # 692 (internally)
REJUVENATING FLOORS	Same oil originally used	or	KUNOS Maintenance Oil # 1862
REJUVENATING FURNITURE	BIVOS Oil Wax # 375	or	GLIEVO Liquid Beeswax # 315 or KUNOS Maintenance Oil # 1862
GLUE	BILIS Tile Adhesive # 503	or	DOMO Universal Adhesive # 513
DILUTANT	SVALOS Thinner # 222		
CLEANING- ALL SURFACES	TRENA PH neutral Cleaner # 556		
CLEANING - EXTERIOR	GLOUROUS Natural Masonry Cleaner # 1806		
CLEANING TOILETS AND BATHROOM	TAROS Toilet Cleaner # 548		
CLEANING LINO	GLANOS Liquid Wax Cleaner # 559		
CLEANING HEAVY STAINS AND WATERBASED PAINTS	LATIS Intensive Cleaner # 551		
MOULD	FUNGIVER Mould and Mildew Remover # 1780		



FLOOR COATINGS

FOR EASE OF REJUVENATION

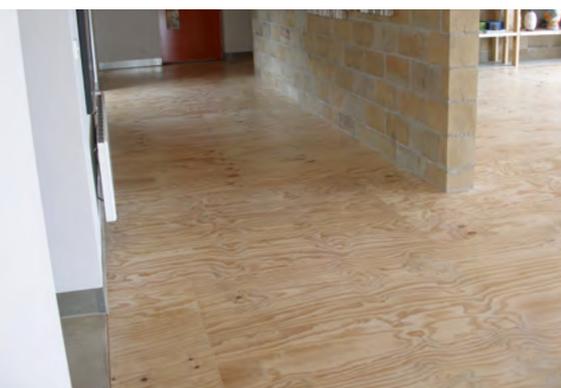
Safe & Natural. Unlike synthetic products the plant oil-resin-wax combination will harden and protect the surface from within. Livos hardening oils will not edge bond timber boards together, will intensify the grain and colour of timber and enable minor scratches to be easily repaired. Rejuvenation of concrete or timber floors is simple and floors do not require re sanding.

It has a pleasant smell, creates a healthier living environment and floors remain anti static.



ARDVOS Universal Wood Oil # 266 is suitable for floors and furniture. Soft and hardwood timbers internally. Deep penetrating. On concrete it may be used as a primer, or with Vindo natural oil paint # 629 to add colour.

KUNOS Natural Oil Sealer # 244 is also suitable for floors, furniture, concrete and bench tops. With its higher resin/wax content, a natural gloss may be achieved. Also available in different stains. Slip resistant tested.



	244 - 204 White		244 - 069 Tobacco
	244 - 002 Colourless		244 - 082 Rosewood
	244 - 054 Mahogany		244 - 088 Smoked Oak
	244 - 062 Walnut		244 - 064 Dark Walnut
	244 - 089 Antique Oak		

KOIMOS High Solid Wood Oil # 208 is VOC free, a trowled on coating only suitable for machine application. Available in Clear, Dark Walnut & Smoked Oak.



KUNOS Maintenance Oil # 1862 Refreshes the surface shine and produces a transparent, satin-glossy finish.

PREPARATION

Any puttying should be completed prior to sanding. Sand timber to 120 grit. Ensure no sanding marks are visible, especially if working with a stain. Remove all dust thoroughly using a vacuum cleaner. Keep oil at room temperature. Oiling of floors should take place at the end of a project, when all other trades have finished. Do not use or store oil below 12°

APPLICATION

Apply oil, paint brush around edges, wait 20 mins, wipe off excess oil. Advantageous to use a rag under a buffing machine. 3 coats on separate days. Last coat can be applied drop wise and buffed in using a white polishing pad.

MAINTENANCE

Once finished, stay off floor for 24-48 hours. Use the Trena pH Neutral cleaner and dilute as recommended. No microfiber or steam mops. Download the Care and Maintenance sheet from the website.

As with all products, to achieve a hard wearing durable surface one must follow the correct **Preparation** procedures. **Apply** the products as specified and **maintain** them correctly with the recommended products.

Please note all How to Application sheets, Videos and Care and Maintenance documents for the various surfaces are to be found on our website.





FURNITURE FINISHES

SUSTAINABLE CARE OF TIMBER

Unlike conventional coatings LIVOS uses nature's own substances to impregnate and protect the timber rather than creating a plastic film on top.

Kunos Natural Oil Sealer # 244 is certified food and toy safe. See info and colour chart on page 4.

Kunos Countertop Oil # 243 is heat resistant to 50 degrees and certified food and toy safe.

Kaldet Transparent Wood Stain # 270 creates a decorative finish that retains permeability to vapour. Some stains are suitable for exterior use.



	202 White		082 Rosewood
	032 Pine		212 Light grey
	022 Boxwood		122 Ultramarine blue
	052 Brazil		124 Country blue
	042 Dark teak		113 Green
	076 Oak		102 Ebony
	062 Walnut		



Linn Bathroom & Furniture Oil # 1703 creates a glossy water resistant surface after 3 coats.

Gleivo Liquid Beeswax # 315 suitable for interior panelling and furniture as well as regular care of linoleum.

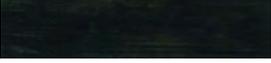
Bivos Oil Wax # 375 is ideal for maintaining oiled or waxed surfaces including Terra Cotta tiles.

EXTERIOR DECKS & FURNITURE

FOR NOURISHING NATURALLY

The penetrating oils protect surfaces such as cladding, decks, exterior furniture and any timber exposed to the elements. The surface won't crack, peel or blister making rejuvenation a simple process.

ALIS Decking Oil # 579 is available in 6 stains, is water repellent and open pored.

	579 - 022 Boxtree		579 - 048 Chestnut
	579 - 072 Oak		579 - 101 Black
	579 - 068 Light teak		579 - 748 Slate grey

The surface must be absorbent, clean and dry. If necessary, clean prior with GLOUROS Cleaner # 1806 to remove any mould, algae build up or if timber has "greyed off". Ensure timber is completely dry. Avoid winter application whenever possible.

Apply 2 coats on consecutive days. Wipe off excess after 10 mins.

Reapplication of one coat after 1-2 years is recommended, no sanding back required.





WALL PAINTS

FOR SAFER DECORATING

Conventional home decorating products may harbour odourless yet harmful toxic emissions for long periods of time. Livos paints are safe to use, even by children. Made from renewable raw materials, they are safe to recycle. Various shades are achieved by mixing the pigment into a white base. The paints are vapour permeable and critical to use on vapour permeable substrates.

Grava Paint Primer # 408 has strong stabilizing properties and its deep penetration creates an excellent adhesion for the Livos Wall & Ceiling paint. May be used on other absorbent surfaces as a primer prior to tiling with the Bilis Tile Adhesive and is to be mixed 50:50 with water, making it more economical.

Dubron Wall & Ceiling Paint # 412 may be used on many surfaces such as plaster, cement, brick, wallpaper, gypsum boards and smooth painted surfaces. The white base may be used alone or mixed with the Ura pigment paste. Excellent water vapour permeability and is antistatic.

URA Pigment Paste # 410 Available in 17 colours and mixable to any ratio with the Dubron Wall Paint. Livos do not use any preservatives in their paints and therefore, one mixes the pigments with the white base to create an endless array of colours.



100 %	33 : 66*	13 : 87*	7 : 93*		100 %	33 : 66*	13 : 87*	7 : 93*			
005					Sunny yellow	441					May green
442					Golden yellow	111					Green
011					Ochre	443					Mint turquoise
021					Red ochre	444					Capri blue
041					English red	121					Ultramin blue
051					Persian red	445					Blue-violet
211					Creme	101					Black
071					Natural umber						
081					Burnt umber						
440					Linden green						

DOORS & SKIRTING, TRIM PAINTS

OIL PAINTS FREE OF TOXIC FUMES

Natural oil paints do not offgas any toxic fumes and promote a healthier indoor climate. Livos natural oil paints are safe to use, safe to recycle, have excellent quality, coverage and provide beautiful colour.

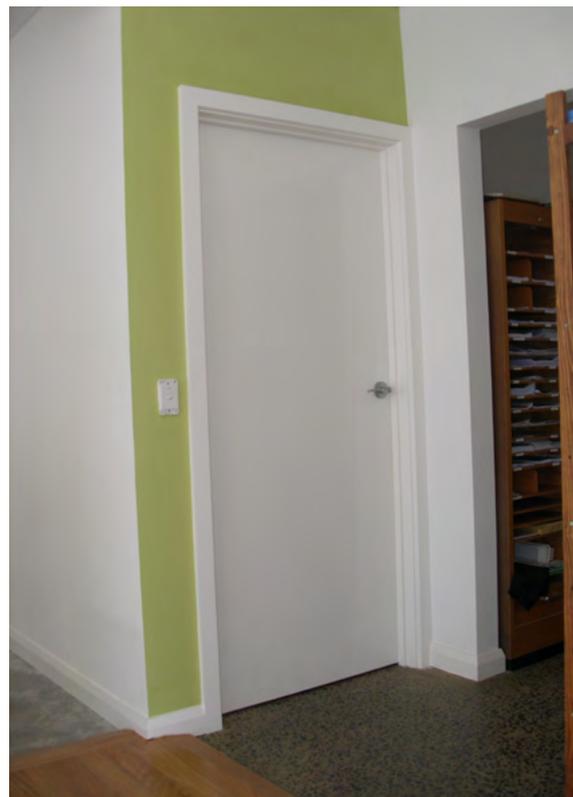
Menos Natural Undercoat # 626 for interior wooden surfaces. It is flexible, matt and easy to apply, sandable when dry and creates a good adhesion to underlying surfaces.

Vindo Natural Oil Paint # 629 (gloss) is suitable for interior and exterior surfaces of timber and metal after priming with a suitable Livos primer. 5-10% may also be used to tint the Ardvos for treating concrete. Has excellent coverage. One may mix the various shades into a base white to create vast array of colours.

	629 - 201 White		629 - 101 Black
	629 - 011 Ocher		629 - 124 Country blue
	629 - 041 English red		629 - 128 Capri blue
	629 - 051 Persian red		629 - 121 Ultramarine blue
	629 - 071 Natural umber		629 - 111 Green
	629 - 081 Burnt umber		629 - 212 Light grey

Canto Natural Oil Paint # 692 (low gloss) has good coverage, elastic high yield and economical. Resistant to abrasion and scratches. Easy to apply. The Canto may be tinted with small amounts of the Vindo colours to create various shades. This will maintain the low gloss level of the Canto.

Duro Natural Rust Preventative Primer # 622 is suitable to prime internal and external metal surfaces prior to treating with the Canto or Vindo.





CLEANERS & MAINTENANCE

FOR RESPONSIBLE CARE AND CORRECT MAINTENANCE

To maintain a durable surface the correct maintenance product is recommended. All cleaners are concentrates, may be used on various surfaces and are fully biodegradable.

Trena PH Neutral Cleaner # 556 is a mild and effective cleaner for many surfaces. Highly recommended especially for timber.

Glanos Liquid Wax Cleaner # 559 is for oiled, waxed and lacquered surfaces to restore sheen. Used one in every 5 washes in conjunction with Trena.

Latis Intensive Cleaner # 551 may be used prior to a rejuvenation and for heavier stains and marks.

Fungiver Mould and Mildew Remover # 1780 comes in a ready to use spray bottle for easy application of mouldy surfaces. Based on hydrogen peroxide and fruity acids and is also suitable for secondary contaminations.

Glouros Masonry and Deck Cleaner # 1806 for cleaning of concrete prior to oiling. For cleaning of greyed off decks and removal of moss, chalk and cement residue on external wood and stone.



OTHER PRODUCTS

FREE OF HARMFUL CHEMICALS

Bilis Tile Adhesive # 503 contains no cement. Can be used on interior ceramic tiles and small wall tiles as well as floor tiles. VOC free which means no off gassing through the grout. Prior to application, priming of surface with the Grava # 408 may be necessary.

Domo Universal Adhesive # 513 is for use on cork tiles, linoleum as well as carpet with jute or soft backing. Due to the water content, not suitable on timber.

Taketi Paint Stripper # 554 is ready to use for removing paints and natural or synthetic varnishes. Recommended instead of sanding if one is unsure of the coating being removed.



CHILDRENS RANGE

FOR A SAFE AND CREATIVE EXPERIENCE

Vida Facepaint # 1090 is made without preservatives, has excellent coverage and skin tolerance. Comes with 2 brushes and a cloth to complete the set.

Salis Finger Paints # 907 comes in a set of 6 resealable jars. Also suitable for use on any absorbent material such as wood, stone, unglazed clay, paper, cardboard, gypsum and salt dough.





CASE STUDY: St Kevin's Toorak Cost effectiveness

OVERVIEW:

Newly laid 900 sq mt spotted gum parquetry flooring.
Laid, sanded and oiled-with Kunos natural oil sealer clear and smoked oak 1:1

ISSUES:

Floor sanding and oiling was completed too early in the construction stage.

Landscape was not completed resulting in grit entering the hall
Electricians required scaffolding to complete light fitout
Painters to touch up
Floor not protected
Chairs with no felt tips

RESULTS:

Surface scratches.

COST COMPARISON TO REPAIR:

Oiled floor

- Easy to repair, no sanding, no dust
- Maroon pad to remove scratches and white pad for oiling using minimal oil
- Required 2 days labour, one person,
- Cost \$2,100
- Area can be used after 24 hours

Varnished floor

- Not repairable
- Large quantity of sanding belts and coating required
- Area would require complete resanding 3 men x 7 days
- Cost \$31,500
- Unable to be occupied for at least 10 days



WHY LIVOS NATURAL OILS OVER VARNISH

AN UNEDITED TESTIMONIAL

Wantirna College is a large Secondary school in the Eastern Suburbs of Melbourne. It has a student population of 1250 with approximately 120 staff. The College has only one Gym the size of a standard basketball court.

This facility is used for numerous physical education activities, basketball, netball, volley ball, badminton etc. It is also used by outside hirers 3 – 4 times a week and is the assembly point for at least 600 students 8 times a year. A great deal of traffic passes through its doors each day.

Over the past 4 years the varnish finish to the floor had begun to de-laminate. It had got to the point where the floor needed a total refurbishment, an expensive exercise. I was extremely concerned however that after the refurbishment process it would only take one assembly to bring a high proportion of the good work undone. 500 hundred chairs and shuffling students would heavily scratch a polyurethane varnished finish. I expressed my concern at our monthly Facilities meeting. Other than limiting certain activities in the Gym I didn't know what to do.

A parent on our committee (a person who I had great confidence in) indicated that he had his floors sanded and oiled and was very happy with the result. A less toxic process, no further sanding with the wood itself offering protection over a coating. A great natural and safe alternative.

This approach interested me greatly as I could see it may meet our multi-purpose needs with a more impervious finish. Correspondence and visits to previous school clients confirmed that this alternative could be safe, viable and ultimately economical over the longer term. It required us to think "outside the square".

We are very happy with the results. To keep the floor looking great we have purchased a dry scrubber vacuum from Nilfisk and will invite Anro Floors back at the end of year for minor maintenance.

Facilities Manager
Wantirna College





CASE STUDY: Professional Kitchen Ease of rejuvenation

SITE:

The Agrarian Kitchen, Lachlan, Tasmania.
Teaching kitchen, farm, heirloom vegies and animals. Run by Rodney Dunn and his wife Severine.

FLOORING:

New hardwood Vic Ash flooring 40m², originally sanded and oiled with Kunos natural oil sealer # 244 in August 2008.

MAINTENANCE:

Floor washed with Trena neutral cleaner.

FIRST REJUVENATION:

4 Years after initial oiling and 3,000+ students having attended various cooking classes.

With the large number of students through the doors since opening in 2008 the floor looked slightly dry, had some oils stains as one would expect in a commercial kitchen however it was still in a relatively good condition.

Due to the extreme wear and tear of this floor, and to remove the oil stains, a 120 grit screen mesh was used over the surface rather than the usual maroon pad (light abrasive).

As the floor will be reoiled, the oil stains did not need complete removal.

After a gentle buff with the screen mesh, the floor was saturated with oil again, left on for 20 minutes, then excess removed.

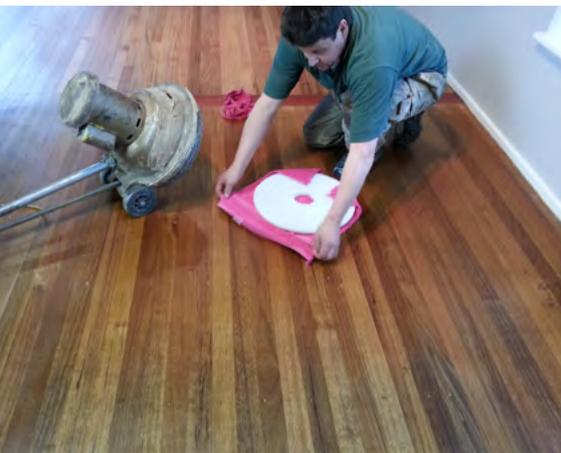
The whole process took 2.5 hours, 2 lts of oil, one screen mesh, one white pad and 40 sq mts took 2.5 hours.

COST:

\$400

No dust, heavy furniture need not be removed and the area may be used the next day.

Re oiled and nourished and ready for the next 3,000 plus students.



CASE STUDY: White Concrete Ease of repair and rejuvenation

SITE:

Private home, Clifton beach, Tasmania

FLOORING:

Original slab contained white oxide, burnished and treated with the Kunos white oil.

MAINTENANCE:

Floor was washed occasionally with the Trena neutral cleaner.

DAMAGE:

Battery acid had leaked onto the floor penetrating the surface and creating a dull patch.

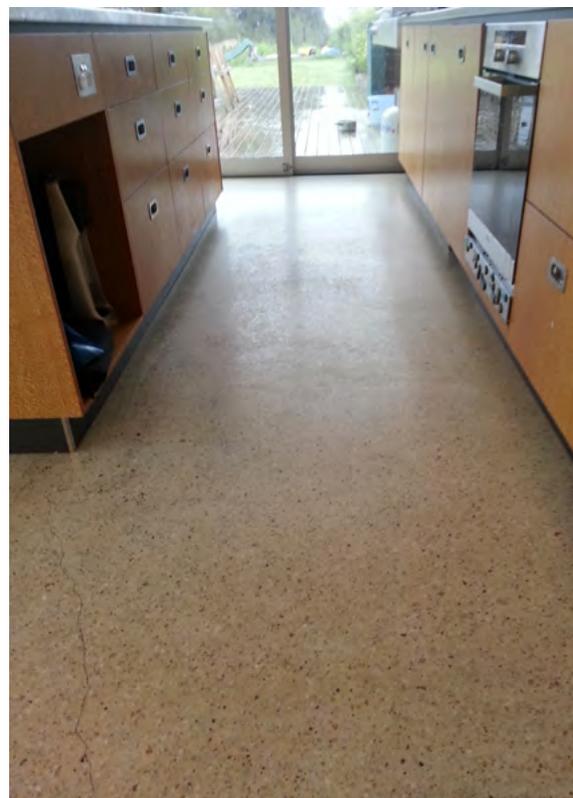
3 Years after initial oiling.

For repairs, work oil in with a fine sand paper over the damaged area. This smoothens the rough surface and replaces the oil at the same time.

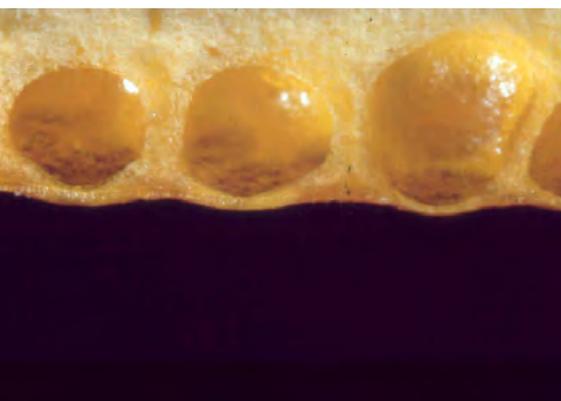
Allow the oil to be absorbed for approx 15 minutes, and then wipe off completely. If required, the total floor area may be buffed with a white pad and minimal oil to rejuvenate and refresh.

The whole process required 2.5 hours, 0.5 litres of oil, one orbital disc and one white pad.

Heavy furniture did not need to be removed and the area can be used the next day.



WHY LIVOS NATURAL PRODUCTS?



- Provide economical, sustainable and environmental friendly options to their synthetic counterparts.
- Suitable for a range of surfaces, internal and external, domestic or commercial
- Provide excellent coverage, quality and ease of rejuvenation
- Suitable for private consumers, craftsmen and the professionals
- Cleaning and care products to ensure surfaces last for decades
- Extensive website with detailed sheets and videos enabling the best results
- Made from natural and renewable raw materials Livos is the world's first manufacturer of natural paints
- Manufactured in Germany under strict European regulations and Eco Specifier verified in Australia
- The health of the individual and applicator are a top priority
- Non Toxic, no harmful chemicals
- Livos follows the life cycle of its products from raw materials to disposal
- Full declaration of all ingredients since 1984, allowing full transparency and informed holistic decision making
- Vapour permeable and anti static ensuring optimal Indoor Air Quality
- Available Australia wide

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