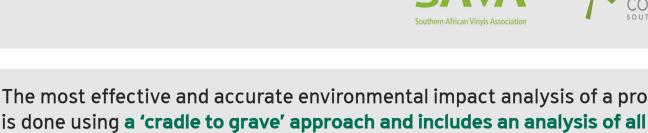
A cradle to grave analysis: Are vinyl floors environmentally responsible?



Historically vinyl flooring developed an unwarranted reputation as being 'environmentally unfriendly'. However, thanks to proper

analysis and work done by the Southern African Vinyl **Association (SAVA)**, vinyl has been given the **'environmental** thumbs up' by the Green **Building Council of South** Africa (GBCSA) and other organisations in SA and around the globe.





environmental ratings, some are better than others. Polyflor, globally and in SA, are committed to bringing you an environmentally sustainable product. Polyflor's cradle to grave analysis:

stages in the life-cycle of a product. Whilst most vinyl products have good

1. Sourcing raw materials Vinyl is made up of 57% salt (chlorine) and 43% oil (ethylene), salt being one of the world's most abundant natural resources. All raw



materials used in the manufacture of Polyflor vinyl flooring are responsibly sourced from the closest possible suppliers and purchased

in bulk to minimise the transport impacts. Like Polyflor, our suppliers are ISO 14001 certified or demonstrate robust environmental management. Polyflor floorcoverings predominantly use sustainable materials. As an example, our homogeneous range

of products **USE UP TO**



flooring products.

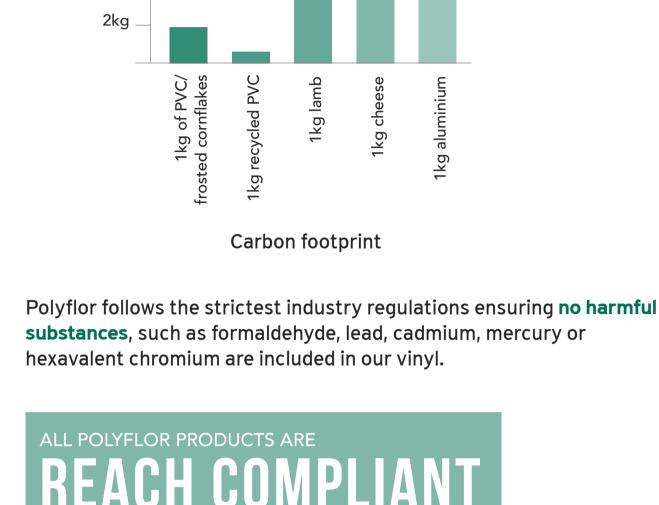
frosted cornflakes!

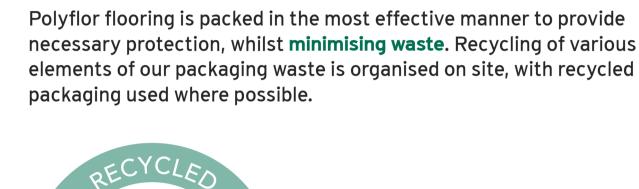
Vinyl requires less energy to produce than other plastics, at least 15% less energy than linoleum and 50% less energy than ceramics, due to linoleum and ceramics' lengthy processes in 'ovens'.

Vinyl is exceptionally energy efficient to produce, and embedded energy is further reduced when recycled material is used in place of raw materials. Vinyl has a relatively low carbon footprint; the same as

14kg 12kg

10kg 8kg CO_2 6kg 4kg





(Registration, Evaluation, Authorisation & restriction of Chemicals)



used where possible

4. Distribution & transportation

allowing reduced fuel consumption in transit.

3. Packaging

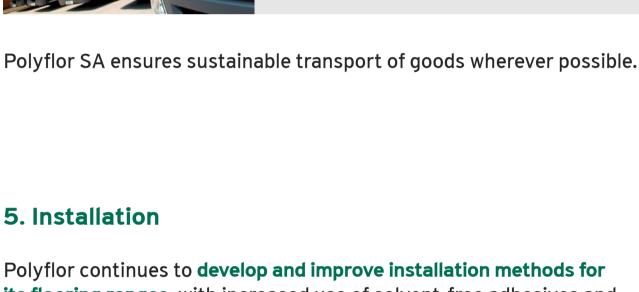
Vinyl flooring is much lighter compared to other flooring materials,

As a UK manufacturer, Polyflor distributes products from its central distribution centre in the North West of England through a network

of wholesalers throughout the UK and around the world, a model that

ensures efficiency through the transportation of full, bulk loads.

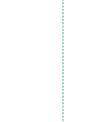
vehicles are used. Further reductions of the fleet's environmental impact are achieved by improving driving efficiencies, using the shortest routes possible and increasing bulk loading and backhauling volumes.



Polyflor continues to develop and improve installation methods for its flooring ranges, with increased use of solvent-free adhesives and adhesive-free vinyl flooring, such as Camaro Loc, Expona SimpLay, Secura and Designatex. The added benefit of adhesive-free flooring is the ability to recycle and reuse the product.

Polyflor operates its own transport fleet in the UK which is maintained and updated as often as possible to ensure the most fuel-efficient

Expona Simplar Designatex Secura



Examples of adhesive-free vinyl flooring

considered.

chemicals.

A PUR COATED FLOOR

55% LESS WATER

LIFE CYCLE

8. Disposal of the product

extremely durable

residue from vinyl floor, making recycling difficult.

initiative for vinyl off-cuts (there is always wastage at site).

STEP 2

Fill the bags with

clean vinyl offcuts

collected during

installation

We have arranged with the major recyclers of vinyl around the country

STEP 3

Polyflor will

arrange collection

of the bags from

the contractors' premises

7. Durability

fire resistant.

maintenance costs by up to

reduces lifecycle

over 20 years

6. Maintenance The 'in-use' phase of any flooring accounts for 80% of its environmental impact. Factors such as the sustainability, cost and

efficiency of cleaning methods and cleaning products need to be

features including a (Polyurethane) PUR reinforcement coating

which ensures superior cleaning benefits, enhanced protection and

sustainable ensuring less use of energy, polish, water and cleaning

optimum appearance retention. The PUR coating is **environmentally**

Most Polyflor products are designed with low-maintenance

14 000 450 400 12 000 350 10 000 300 8000 250 200 6000 150 4000

neutural

Vinyl offers excellent durability. The longer a product lasts the less energy and other resources are needed to make, deliver and install a replacement. The official life cycle of vinyl is 20-25 years but with excellent maintenance, it can literally last a lifetime and is naturally

Currently, in South Africa, no technology exists that can separate glue

However, Polyflor South Africa does offer a 'first-of-its-kind' recycling

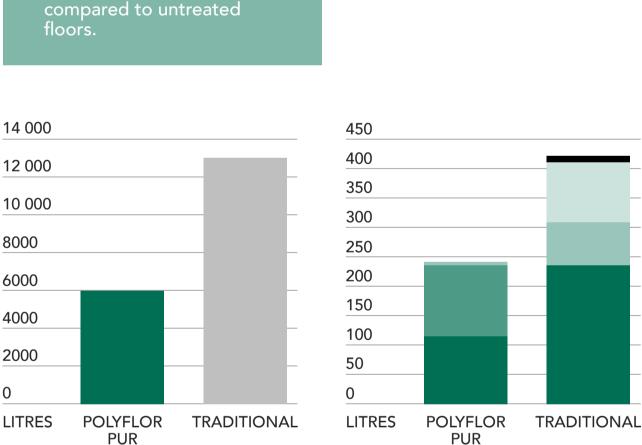
detergent maintainer cleaner

alkaline

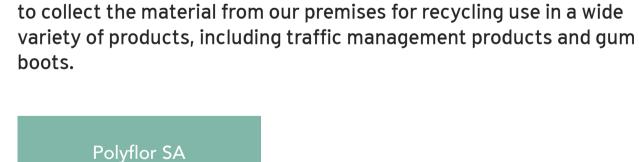
POLISH FREE FOR LIFE

polish

stripper



A SIMPLE 3-STEP PROCESS:



recently won the

STEP 1

Collect your

branded poly

recycling bags from

Polyflor SA



standards, and independent and rigorous VOC tests and have approval certification for the following: AgBB; Swedish B.P.D

9. Air quality of the product

(FLEC test); Finland M1 test; GBCA Compliant (GreenTag approval); Afsset A+ and FloorScore® Along with positive is no evidence to suggest that vinyl flooring contributes to common allergies such as asthma or dust allergies. Vinyl is non-

emissions, which affect the air quality in a building. All Polyflor ranges have The most recent test passed key international method by Eurofins is 'Indoor Air Comfort'. This test method is the most comprehensive and stringent within the industry, worldwide, and tests for all known emissions. Polyflor products tested to date have achieved Indoor Air Comfort Gold.

Polyflor products

conform to health and

An important part of environmentally sustainable floors is their VOC

other flooring products and is used in the strictest of hygiene zones throughout hospitals. An additional benefit of Polyflor's low maintenance PUR products is ÉMISSIONS DANS L'AIR INTÉRIEUR* the minimised VOC emissions from reduced cleaning chemicals.

choices. When choosing a floor, make sure





Sustainability Report



FACTS

safety standard EN 14041: VOC test results, there 2004 via an E1 Declaration, which confirms that formaldehyde is not used in any Polyflor vinyl products. shedding, and most allergies are caused by airborne dust. Polyflor vinyl is favoured for its superior 'cleanability' over

Vinyl flooring is now recognised as one of the most environmentally sustainable floor

See here

Polyflor SA: Industry specialists in vinyl flooring.