

therdex



Beautiful and solid!

The most environmentally friendly LVT floor

www.therdex.nl



THERDEX LVT FLOORS Environment is top priority!

The floor is one of the most defining factors in the interior. However, more elements are essential for making the right choice.

With a Therdex LVT Floor, you choose a top product in every respect.

Quality is for a self-evident fact, and the environment belongs to us all. Anywhere in the world! That is why we value testing and testing of our products at every level —

mandatory labels, but also test institutes that are not compulsory but are a representation of perfection in this respect.

Important: Therdex LVT Floors are provided with **organic-plasticizers** and **F-free**. That is an important issue to us, for you and the environment.



Organic-plasticizers and **phthalates** are two totally different things. You can be phthalate-free without using organic-plasticizers. Therdex has both!

Plasticizers are substances that make plastics elastic. If a thermoplastic is so strong that little more can be done, a plasticizer is added to soften it. Many plasticizers, especially phthalates, are suspected of having harmful effects on health when released from plastics.

The release of phthalates can best be compared with condensation of moisture in a room: condensation on the windows. This is how phthalates also ends up in space. Therdex products are phthalate-free.

Therdex uses organic-plasticizers, harmless to people and environment and also biodegradable. A double ecological advantage!



THERDEX LVT FLOORS (organic)plasticizers

Why are plasticizers in PVC?

Plasticizers in PVC ensure that the panels are flexible and therefore easy to work with. Comparable products that plasticizers are being used for are plastic packaging, medical devices and children's toys.

Are plasticizers harmful?

Approximately 85% of all plasticizers being used belong to the family of Phthalate

plasticizers. These Phthalate plasticizers have been under pressure for 20 years because of the alleged adverse effects on the environment and public health. Plasticizers slowly disappear from all kind of products, but phthalate plasticizers are not thoroughly degraded and therefore still ending up in our environment. The European Union has carried out a comprehensive risk assessment for the use of phthalates in products. This research was completed in 2004.

Concerning the use of certain products

such as toys and LVT floors, the conclusion was that some phthalates could not be used because of the occurrence of risks. Three phthalates are classified as teratogenicity; i.e. they have effects on development and reproduction.

Which plasticizer is in (Therdex) PVC?

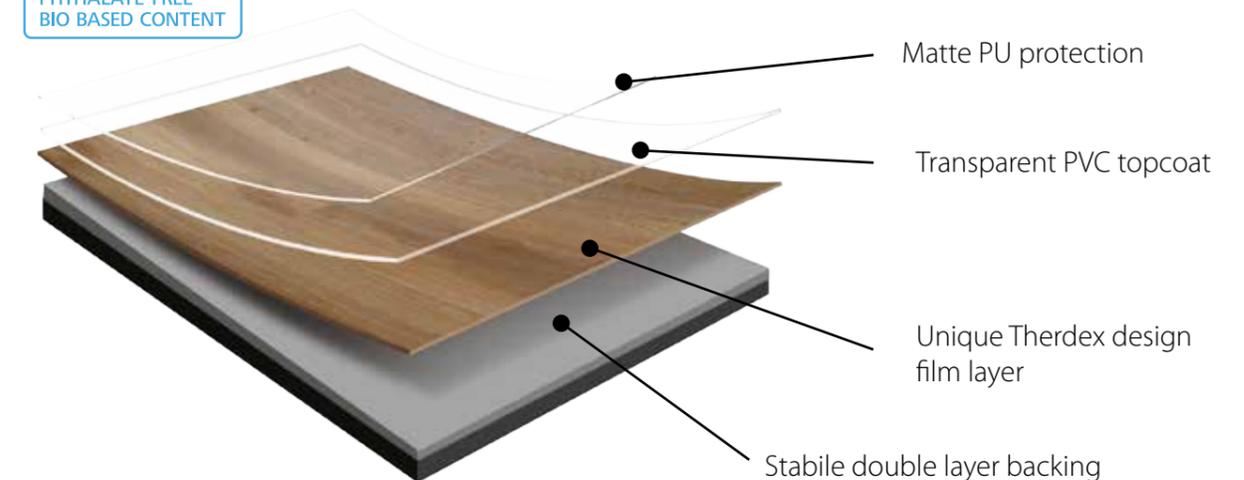
In the production of the PVC floors of Therdex use is made of organic plasticizers, also called isosorbide plasticizers. These are made from sorbitol and fatty acids and are biodegradable.

Our floors have been indicated with the ECO + certificate that demonstrates that our products are phthalate-free which means that Therdex PVC floors are harmless to people and the environment.

Organic plasticizers

How is this plasticizer built up?

90% of all plasticizers that are being used are built up chemically. Often, these are approved auxiliaries; at the same time, we must remember that this remains a chemical process. The plasticizers that Therdex uses are all built up with soy oil. Not polluting in (production) processes and biodegradable.





THERDEX LVT FLOORS Environment and PVC

Environment and PVC

Opinions are divided on the 'environmental friendliness' of PVC production in the Far East. Some suspect that the production is not 'clean' otherwise say 'that it is not too bad'. Closer to home is more controllable. Therdex vigorously monitors environmental impacts in production. Moreover, PVC can be easily recycled, whether it is a floor, sewer pipe or toy.

What is PVC?

PVC stands for Polyvinyl chloride and is based on petroleum (43%) and salt (57%). PVC is naturally hard and brittle, but by adding plasticizers, it can be made smooth. Hard PVC can be seen in gutters, dashboards and toys. Soft PVC is in hoses, foils and partly also in PVC floor covering. PVC is used in many products, is durable and lightweight, can be processed in many

ways and can easily be recycled.

Is PVC carcinogenic?

No. The relationship between PVC and cancer has to do with production processes mainly with the incineration of discarded PVC in waste ovens. In the 1970s and 1980s, there were dioxin scandals because dioxins were releasing during the combustion of PVC and dioxins are possibly carcinogenic. Waste incinerators now work with higher temperatures, causing dioxins to burn.

PVC is recyclable, but is it environmentally friendly?

These concepts are used interchangeably and generate much confusion. One of the strengths of PVC is the possibility of reuse because it largely retains its properties during recycling. The problem is that the PVC is often contaminated with various other plastics. Besides, there are many different types of PVC, so it is not clear what the quality of recycled PVC is.

Is the PU (Polyurethane) top layer harmful to health?

In the production of PU, harmful substances are released, and toxic organic raw materials are being used. In the end

products these hazardous substances are practically no longer present. Fortunately, people are busy developing less harmful production methods. This PU is also used in synthetic leather, car paint and children's toys as all organic materials in polyurethane combustible. The toxicity of the combustion gases and smoke density are usually measured in accordance with DIN 53436. Based on this leading international standard, the potential release of hazardous substances (acute inhalation toxicity) at 800 degrees does not appear to be worse than that of natural products such as wood, wool or leather.



CE

13
DM
EN 649

Reaction to Fire: Bfl-s1
Slip resistance: R9

EN14041:2004

Resilient floor covering
to be
used within a building

eco+

PHTHALATE FREE
BIO BASED CONTENT

INDOOR AIR COMFORT[®]

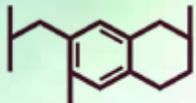
eurofins
GOLD
★★★★

CERTIFIED PRODUCT

ISO 9001
certified

U.S. GREEN BUILDING COUNCIL
LEED
USGBC

ISO 14001
certified



Health Product
Declaration™
Collaborative

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CERTIFIED
ENVIRONMENTAL
PRODUCT DECLARATION
UL.COM/EPD

g
BB

Ausschuss zur
gesundheitlichen
Bewertung von
Bauprodukten

floor
score

ÉMISSIONS DANS L'AIR INTÉRIEUR[®]

A+

A+ A B C

U.S. GREEN BUILDING COUNCIL
LEED PLATINUM
USGBC

Decoria Materials
(JiangSu) Co., Ltd.
Zhenjiang PRC
Z-156.603-1031

IFI
Institutes & Flooring Institute GmbH

Emissionsgeprüfter Bodenbelag
nach DIN EN 15663

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