

VERDURENTM

Hygienic Sustainable Seamless Flooring for Healthcare

Specifications

Composition

Verduren is a fluid applied, seamless resilient floor covering, made from vegetable oil, linseed oil, wood and cork powder, limestone, cork and other natural pigments.

Application

Verduren is a tough, flexible, seamless resilient floor covering that feels comfortable underfoot. It can be used in healthcare, the education sector, offices, labs, museums, etc, and is also suitable for residential spaces. In short, Verduren is a perfect solution for flooring where the owners and users have a need for comfort, durability, and hygiene. Verduren is a seamless solution from wall to wall.

Appearance

Verduren has a mingled physical appearance with a smooth level surface. Due to the natural properties of Verduren, slight color variations in the appearance are possible. After installation, Verduren is covered with Verduren Top Coat, an antimicrobial protective sealant coat that has a low sheen finish. Verduren comes in a wide variety of standard colors with custom colors possible to suit any special design requirements.

Properties

Verduren is wear-resistant, shows high mechanical properties, is extremely durable, and easy to maintain. After fully cured Verduren is seamless and liquid tight and resistant to a wide range of chemicals, acids, resins, solvents and stains. Verduren is free of plasticizers and the majority of the ingredients in Verduren are renewable resources. After many years of intensive use Verduren can be re-coated at a fraction of the initial cost.

Cure Through

Verduren is UV cured on-site, and is 100% cured and ready to receive use as soon as installation is finalized.

Properties:

Density	0.96kg/dm ³
Compressive Strength	Appr. 20N/ mm ²
Adhesion Strength	> 3N/mm ²
Tensile Strength	Approx. 14 N/mm ²
Elongation At Break	Approx. 90%
Binder	Biopolymer, Linseed oil
Fire Rating	Bfl - S1 (EN 13501-1)
Color	Standard 54 colors
Hardness	Approx. 45 Shore D
Thermal Insolation	0,027 m ² x K/W
Underfloor Heating	Possible

Installation

The concrete or screed subfloor has to be primed and leveled with a self leveling compound to obtain a flat surface. Uneven surfaces have to be leveled by diamond grinding prior to the leveling compound. All dust and loose parts have to be fully removed from all surfaces before the product is applied, preferably using a brush and/or industrial vacuum cleaner. Prior to the installation of Verduren a suitable primer needs to be applied.

In many cases, Verduren can be installed over the existing floor. During installation the room temperature needs to be at least 62 °F. The floor temperature needs to be at least 59 °F and minimum 3 °F above the dew point. The application is very labor friendly, and the Verduren material arrives at the job site in buckets. There is no welding, no cut waste, and no adhesives.

Specifications

Environmental Aspects

Verduren is made with renewable resources and is free of the Red List ingredients. Based on Eurofins indoor air test, Verduren complies with many ecolabels such as:

- Blue Angel (Germany)
- Californian CDPH Standard Practice, also called Section 1350, often used for LEED IEQ specifications
- Cradle to Cradle
- DIM / DICL (Construction products, Denmark)
- FloorScore (resilient floorings, USA)
- European "Flower" ecolabel
- Green Label by CRI (Carpets, adhesives, cleaners, USA)
- Green Tag label (Australia, New Zealand, South Africa)
- GUT (Carpets, Germany/Europe)
- Indoor Advantage by SCS (USA)
- M1 (Construction products, Finland)
- Natureplus (Sustainable construction products, Germany/Europe)
- Nordic Swan (Scandinavia)
- SINTEF (construction products, Norway)
- Swedish "byggvarudeklaration" (Construction products, Sweden)
- Umweltzeichen (Austria)

Quick Facts

- Chemical resistant
- Highly stain resistant
- Color stable
- Noise reducing
- Liquid tight
- Impact and indent resistant
- High recovery
- Wide variety of colors
- Design appearance
- Durable
- Sustainable
- Easy maintenance
- Based on renewable resources
- Free of chlorine and PVC
- Free of plasticizers
- Fulfills the AgBB emission criteria
- Odor free
- Antimicrobial
- Skid resistant version available
- Revitalisable
- Self-leveling surface
- Stays flexible over time
- No cutting losses
- No adhesives required

A revolution in resilient flooring.