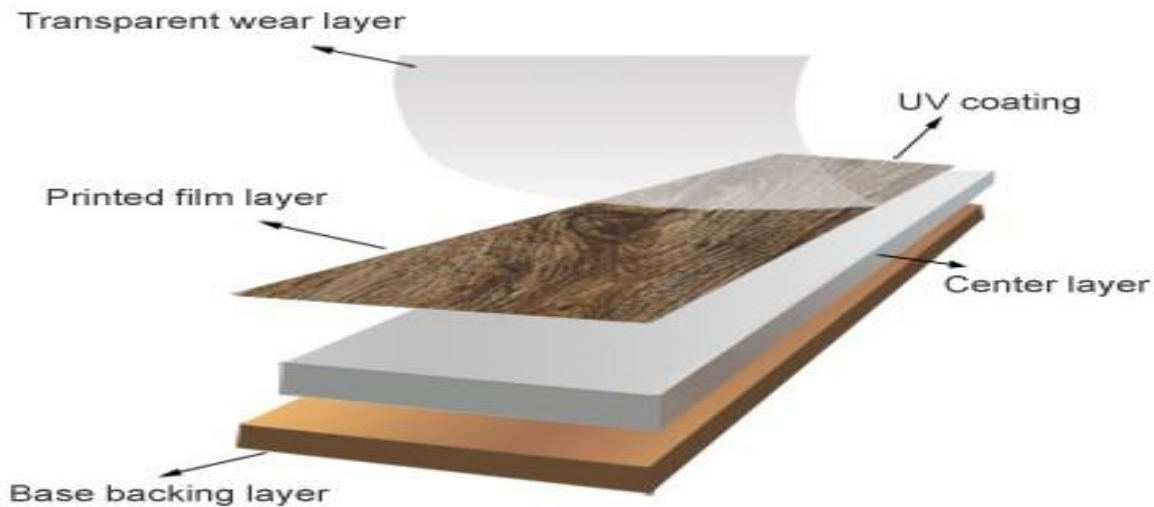


LVT Structure



1. UV Coating:

(1) What is UV Coating?

UV Coating is the PU material (usually in liquid form) which is sprayed on the surface of the flooring. After being exposed to ultraviolet radiation a transparent and compact protective layer (PUR) is left on the surface. This is also known as the PUR surface treatment.

(2) Advantages of PUR surface treatment.

- A. It seals the pores of the floor surfaces effectively, and reduces chemicals [absorption](#).
- B. It increases/improves wear resistance, and strengthens the hardness of the floor surface.
- C. Extends the life of the product.
- D. Improves the antibacterial/anti allergic performance - of the product.
- E. It is a protective barrier during installation.
- F. Polishing and waxing is not necessary after installation.
- G. Improves the UV (Ultra Violet) performance on the surface that efficiently resists colour fading of the floor surface after exposure to direct sunlight for long periods.

(3) UV coating finish (gloss level)

- A: Glossy.
- B: Semi-matt.
- C: Full-Matt.

In the LVT (Luxury Vinyl Tile) industry, we often use various surface finishes (glossy, semi-matt and full-matt) on the floor surface.

The gloss/sheen of the UV coating is decided by the level of [polyurethane \(PU\) coating](#).

If we use 7D-9D PUR polyurethane as a UV coating, the surface finish will be full matt.

If 11D-14D, it is semi-matt.

If 20D-80D, it is glossy.

2. Transparent wear layer:

Transparent wear layer is a pure PVC membrane, which has a high density, high wear and anti-skid resistance properties. This wear layer ranges in thickness from 0.1 mm to 0.7 mm, and the thickness decides the applicable use and service of the product.

For instance, 0.1mm-0.3mm is suitable for domestic or residential applications.

0.3mm-0.5mm is suitable for commercial applications.

0.5mm-0.7mm is suitable for high class commercial applications.

Core technical indicators of the wear layer: this layer decides/dictates the wear ability and fit for use standard, plus if the product is manufactured from pure PVC or not.

Surface Embossing finishes: Deep embossing; smooth embossing/ crystal embossing; Hand Scraped embossing and registered embossing.

3. Printed film layer:

Printed coating layer which is on a PVC colour film about 0.07mm thick, this is printed in various emboss finishes and patterns, e.g. stone, wood, carpet etc..

4. Center layer:

The Center layer is manufactured from mountain flour and PVC, which dictates the hardness and resilience of the floor. The floor's stability is reliant on both this layer and the base layer.

TRIO-Loc has added a piece of "Cross linked fibre glass" mesh in this layer to strengthen the core to provide greater dimensional stability, plus to reduce the shrinkage of the floor in changeable climatic conditions. This layer reinforces the Shock absorption capabilities of the floor.

5. Base backing layer:

The function of the base backing layer- dictates to the balance and stability of the floor, plus is the complete waterproofing of the product.

The base layer is made of mountain flour and PVC. As the base layer of the floor, it is in direct contact to the sub-strait, which will determine the smoothness/level, as well as the stability of the floor.