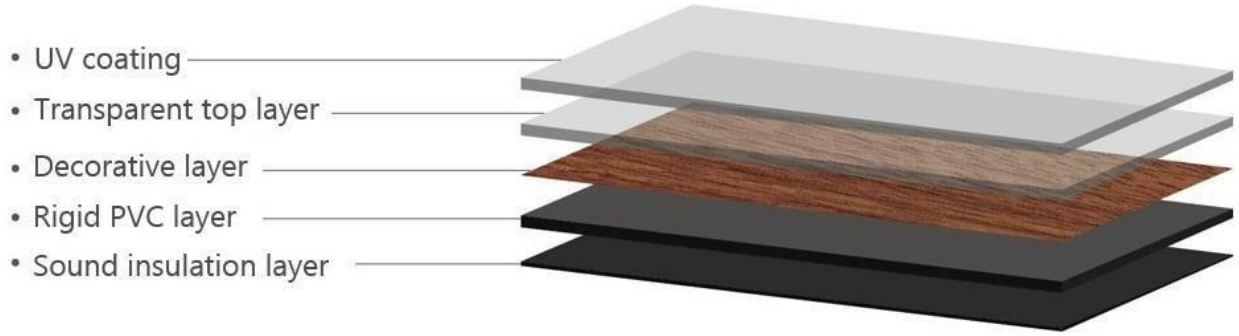
RERE PROJECT DEVELOPER PLC

SPC PRODUCT SPECIFICATION



1. **Material Composition**
   - **Core Material**: A blend of **Calcium Carbonate (CaCO3)** and **PVC (Polyvinyl Chloride)**, with other materials for enhanced properties such as stabilizer, additives (CPE, ACR, PE WAX, S60A), and recycled material.
   - **Wear Layer**
   - **UV coating**
   - **IXPE underlayment**
   - **Surface Layer**: Decorative **vinyl film** providing the design and finish options like wood, stone, and marble.
2. **Performance Properties**
   - **Water Resistance**: Waterproof, resistant to moisture damage.
   - **Impact Resistance**: Highly resistant to indentation, cracks, or surface damage.
   - **Scratch Resistance**: Surface resistant to scratching (tested at 2500 g).
   - **Stain Resistance**: Highly resistant to staining, retains original appearance.
   - **UV Resistance**: UV-coated for protection against fading.
   - **Thermal Expansion**: **≤0.1% dimensional change** after exposure to heat (80°C for 6 hours).
3. **Fire and Safety Ratings**
   - **Fire Resistance**: Meets industry standards for fire resistance (ASTM or ISO).
   - **Slip Resistance**: Rated **R10 or R11** for slip resistance.
   - **VOC Emissions**: Low VOC emissions ensuring low toxicity. Meets **flooring safety regulations**.
4. **Installation Information**
   - **Locking Mechanism**: Click-lock installation system for easy and secure installation without glue.
   - **-Underlayment**: IXPE (1 mm) foam underlayment for sound insulation and comfort.
   - **Subfloor Requirements**: Suitable for concrete, plywood, and most dry subfloors. Ensure subfloor is level and clean before installation.

5. **Durability**
   - **Maintenance Requirements**: Easy to maintain with regular sweeping, vacuuming, or damp mopping. No need for wax or polish. Avoid harsh chemicals.
6. **Environmental and Sustainability Factors**
   - **Recyclability**: Our product is recyclable, with a high percentage of **recycled materials** in its composition.
   - **Sustainability Certifications**: Our product is certified with ***SGS***.

7. **Other Specifications**
   - **Chemical Resistance**: Resists damage from household chemicals and cleaning agents.
   - **Health and Safety Considerations**: Free from harmful chemicals such as formaldehyde or lead. Complies with safety standards.
8. **Quality Control Testing and Results**

Description	Unit	Standard	Actual	Remarks
Barrel Temperature	°C	200.0	200.0	
Hot Mixing Temperature	°C	120–130	125	
Length	mm	915	914	SPC test every 1 hour
Width	mm	982	981	SPC test every 1 hour
Thickness (Unfinished)	mm	4	3.95	
Overall Thickness	mm	5	4.2	Finished product
Weight	Kg	1.9–2.1	1.97	Every 1 hour test
Peel Strength	N/5 cm	≥73	79.9	24 samples tested per day
Gloss Level	Gloss (0–100)	5–80	60	24 samples/day
Scratch Resistance	g	≥2500	No scratches observed	Test at 2500 g
Density	g/cm³	2	2.16	
Lock Strength	N/10 cm	≥400	562.58	
Dimensional Stability	%	≤0.1	0.08	Heat test at 80°C