

Silent Lay+

Technical Data Sheet · Acoustic Underlayment · Available in 2mm, 3mm, 5mm & 10mm

Resilient acoustic underlayment made of agglomerated cork and recycled SBR rubber with polyurethane elastomer bonding agent. Suitable for ceramic, natural stone, LVT and wood flooring. For impact noise insulation, crack suppression and easy installation.

KEY FEATURES	
• Homogeneous material — cork and recycled rubber granules, uniform 0.5–1mm size • High durability and long-term resilience • Low residual indentation — free from plasticiser migration	• High acoustic performance across multiple flooring types • Lighter with improved adhesive bonding vs. 100% rubber solutions • Compatible with glued and floating installation methods

PHYSICAL & MECHANICAL PROPERTIES (ISO 7322)			
Property	Thickness	Value	Unit
Specific weight	2mm	700 – 850	kg/m³
Specific weight	3, 5 & 10mm	490 – 570	kg/m³
Tensile strength	All	> 250	kPa
Compression at 0.7 MPa	All	25 – 45	%
Recovery after 0.7 MPa	All	> 80	%

TECHNICAL PROPERTIES BY THICKNESS (EN 16354)					
Property	Unit	2mm Wood/LVT	3mm Wood/LVT	5mm Ceramic/Stone	10mm Cer amic/Ston e
Thermal Resistance (TR)	m²·°C/W	0.039	0.030	0.050	0.099
Punctual Conformability (PC)	mm	1.1	2.3	3.5	8.0
Compressive Strength (CS)	kPa	> 200	> 60	N/A	N/A
Compressive Creep (CC)	kPa	—	—	—	0.35

ACOUSTIC RESULTS — ASTM E413 / ASTM E989-89								
Flooring	Floor thk (mm)	Underlay thk (mm)	IIC (dB)	ΔIIC (dB)	STC (dB)	System	Ceiling included	Standard
LVT	6	2	76	23	76	Floating	Yes	ASTM
LVT	6	3	76	25	76	Floating	Yes	ASTM
Engineered wood	9.1	5	51	22	51	Glued	No	ASTM
Ceramic	8	5	51	—	55	Glued	No	ASTM
Ceramic	10	10	76	—	71	Glued	Yes	ASTM

ACOUSTIC RESULTS — ISO 1625-1						
Flooring	Floor thk (mm)	Underlay thk (mm)	IS (dB)	System	Ceiling included	Standard
LVT	6	2	18	Floating	No	ISO
LVT	9.1	3	17	Floating	No	ISO
Ceramic	6	3	16	Floating	No	ISO
Ceramic	8	5	20	Floating	No	ISO
Ceramic	10	10	21	Floating	No	ISO

INSTALLATION REQUIREMENTS & CONDITIONS	
Substrate condition	Level, dry, clean and in good structural condition
Substrate moisture content (max)	≤ 2.5 % MC
Air temperature (min)	> 10 °C

Air humidity (max)	< 75 %
New concrete slab curing (min)	120 days before installation
Acclimatisation before installation	Open packaging 48 hours in advance
Underlayment direction	Perpendicular to the final floor covering
Coverage	Full area — no gaps or overlaps
Mechanical fastening	Never use screws, nails or staples — acoustic performance will be compromised
GLUED FLOOR INSTALLATION	
Recommended adhesive — ceramic / stone	Flexible cement glue
Recommended adhesive — wood	Polyurethane wood flooring adhesive
Moisture barrier	Not required for glued installations
Application method	Apply adhesive to subfloor, press underlayment with roller to eliminate waves. Apply adhesive to underlayment, install flooring perpendicularly. Allow to dry fully before use.
FLOATING FLOOR INSTALLATION	
Moisture / vapour barrier	Required — install across entire area before underlayment. Minimum 30 mm wall height, 100 mm overlap, sealed with tape.
Moisture barrier direction	Opposite direction to underlayment to minimise seams, in the same direction as the final floor
Underlayment direction	Perpendicular to final floor, which should run in the direction of natural light incidence
Joining underlayment rows	Secure with sealing tape — no gaps or overlaps
Wall clearance	Leave a small expansion gap between underlayment and all walls

NOTE: Always follow the flooring manufacturer's recommended installation instructions, particularly where adhesives are specified. Never install a wood or laminate floor without a vapour barrier (integrated or applied before the underlayment) for floating installations. Technical data represents typical values and is subject to change without notice. For specific application recommendations, contact Floor Gallery.